

NM1-011

CONTINUED

C-138

YEAR(S):

2006-1997

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

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

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Environmental Bureau
Oil Conservation Division

Form C-138
Originated 9/8/95

Submit Original:
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

00016

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <i>Weatherford Inc</i>
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site <i>Weatherford yard</i>
2. Management Facility Destination <i>Tierra Land Farm</i>	6. Transporter <i>Foutz Conts.</i>
3. Address of Facility Operator <i>#420 CR 3100 Aztec</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR) <i>537 E Animas</i>	<i>Farmington New Mexico</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil



Estimated Volume 250 cy Known Volume (to be entered by the operator at the end of the haul) 250 cy

SIGNATURE: *David Bonawitz* TITLE: *Land Farm Manager* DATE: *2-28-00*
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: *David Bonawitz* TELEPHONE NO. *334-8894*

(Space for State Use)

BY: *Denny G. Teut* TITLE: *Geologist* DATE: *3/2/00*
BY: *Monty J. Kirk* TITLE: *Environmental Geologist* DATE: *3-7-00*



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1600 RIO GRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 284-2190 Fax (505) 284-2111

GARY E. JOHNSON
GOVERNOR

ISNIDOR A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Weatherford International Inc. 515 Post Oak Blvd. Suite 600 Houston, TX 77027	2. Destination Name: TIERRA Environmental Company Inc. 420 C.R. 3100 Aztec, NM 87401
3. Originating Site (name): Weatherford Global Compression Services Inc. 537 East Animas Farmington, New Mexico	
4. Source and Description of Waste The soil consists of approximately 250 cubic yards of hydrocarbon impacted soil accumulated during yard clean up operations at the facility. Potential hydrocarbon contaminants are diesel fuel, hydraulic oil, used and new engine oil. The facility was used to store and service oilfield compressor units.	

1. RONALD E. LONG representative for:
(Print Name)
WEATHERFORD GLOBAL COMPRESSION SERVICES do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check appropriate classification)

☐ EXEMPT oilfield waste

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

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

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

☒ MSDS Information
☒ RCRA Hazardous Waste Analysis
☒ Chain of Custody

☐ Other (description):

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

Name (Original Signature): Ronald E. Long

Title: General Manager

Date: 2-23-00

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 2/29/00

To: Wilson Environmental Management Inc
Attn: CB Jacobson
827 W. 1340 S.
Provo, UT 84601

Group #: 35770
Lab #: 00-U001520
Project: WEM HOU- 03
Sample Desc: WGA-Comp.
Sample Matrix: SOIL
Date Sampled: 2/18/00
Date Submitted: 2/21/00

Time Sampled: 16:40
Time Received: 11:45

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM	DATE	METHOD	ANALYST
		REPORTING	ANALYZED		
		LIMIT			
		(MRL)			
INORGANIC PARAMETERS					
Temperature, Receiving, C	13.0		2/21/00 11:45		CSM

NOTE: Sample received on ice.

Approved By:

Amy Jo Porlock, QA Officer

MRL - Report detection limit

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(generic.rpt)

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905
801 262 7299 PHONE
801 262 7378 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 2/29/00

To: Wilson Environmental Management Inc
Attn: CB Jacobson
827 W. 1340 S.
Provo, UT 84601

Group #: 35770
Lab #: 00-U001520
Project: WEM HOU- 03
Sample Desc: WGA-Comp.
Sample Matrix: SOIL
Date Sampled: 2/18/00
Date Submitted: 2/21/00

Time Sampled: 16:40
Time Received: 11:45

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		DATE ANALYZED	METHOD	ANALYST
		LIMIT (MRL)				
INORGANIC PARAMETERS						
Cyanide, Reactivity, mg/Kg	< 0.4	0.4	2/23/00	12:00	SW 846 8.3	PNM
Flashpoint, Deg. F	> 200	70	2/25/00	10:07	SW846 1010	AER
pH, Solids/Sludges Paste, units	7.54	0.05	2/25/00	8:00	SW 846 9045	TSM
Sulfide, Reactivity, mg/Kg	< 5	5	2/23/00	13:00	SW 846 8.3	PNM
TCLP Ext. Solution pH, units	4.93	0.05	2/23/00			MJB
pH, solution selection, units	8.00	0.05	2/23/00		SW 846 9045	MJB
pH, after extraction TCLP, units	6.00	0.05	2/23/00		SW 846 9045	MJB
Arsenic (TCLP), as As, mg/L	< 0.2	0.2	2/25/00	9:31	SW-846 6010	JJT
Barium (TCLP), as Ba, mg/L	0.5	0.1	2/25/00	9:31	SW-846 6010	JJT
Cadmium (TCLP), as Cd, mg/L	< 0.01	0.01	2/25/00	9:31	SW-846 6010	JJT
Chromium (TCLP), as Cr, mg/L	< 0.02	0.02	2/25/00	9:31	SW-846 6010	JJT
Lead (TCLP), as Pb, mg/L	< 0.1	0.1	2/25/00	9:31	SW-846 6010	JJT
Mercury (TCLP), as Hg, mg/L	< 0.05	0.05	2/29/00		SW 846 7470A	MJB
Selenium (TCLP), as Se, mg/L	< 0.1	0.1	2/25/00	9:31	SW-846 6010	JJT
Silver (TCLP), as Ag, mg/L	< 0.01	0.01	2/25/00	9:31	SW-846 6010	JJT

Approved By:

Amy Jo Porlock, QA Officer

MRL = Report detection limit

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SALT LAKE CITY UTAH 84107 6905
801 262 7099 PHONE
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CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 2/29/00

To: Wilson Environmental Management Inc
Attn: CB Jacobson
827 W. 1340 S.
Provo, UT 84601

Group #: 35770
Lab #: 00-U001520
Project: WEM HOU- 03
Sample Desc: WGA-Cmp.
Sample Matrix: SOIL
Date Sampled: 2/18/00
Date Submitted: 2/21/00

Time Sampled: 16:40
Time Received: 11:45

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 13.0 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT		METHOD
		(MRL)		
Volatiles				
Analyst: AC	Date Analyzed: 2/23/00	Time: 12:55		
Benzene (TCLP), mg/L	< 0.02	0.02		SW846-8260A
Carbon Tetrachloride (TCLP), mg/L	< 0.05	0.05		SW846-8260A
Chlorobenzene (TCLP), mg/L	< 0.02	0.02		SW846-8260A
Chloroform (TCLP), mg/L	< 0.05	0.05		SW846-8260A
1,4-Dichlorobenzene (TCLP), mg/L	< 0.1	0.1		SW846-8260A
1,2-Dichloroethane (TCLP), mg/L	< 0.05	0.05		SW846-8260A
1,1-Dichloroethylene (TCLP), mg/L	< 0.05	0.05		SW846-8260A
Hexachlorobutadiene (TCLP), mg/L	< 0.1	0.1		SW846-8260A
Methyl Ethyl Ketone (TCLP), mg/L	< 0.6	0.6		SW846-8260A
Pyridine (TCLP), mg/L	< 5	5		SW846-8260A
Tetrachloroethylene (TCLP), mg/L	< 0.05	0.05		SW846-8260A
Trichloroethylene (TCLP), mg/L	< 0.05	0.05		SW846-8260A
Vinyl Chloride (TCLP), mg/L	< 0.05	0.05		SW846-8260A

Approved By:

Amy Jo Portlock
Amy Jo Portlock, QA Officer

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SALT LAKE CITY UTAH 84107 6905
801 262 7299 PHONE
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CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 2/29/00

To: Wilson Environmental Management Inc
Attn: CB Jacobson
827 W. 1340 S.
Provo, UT 84601

Group #: 35770
Lab #: 00-U001520
Project: WEM HOU- 03
Sample Desc: WGA-Comp.
Sample Matrix: SOIL
Date Sampled: 2/18/00
Date Submitted: 2/21/00

Time Sampled: 16:40
Time Received: 11:45

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 13.0 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT		METHOD
		(MRL)		
Semi-Volatiles				
Analyst: AC	Date Analyzed: 2/24/00	Time: 10:07		
Extracted by: AC	Date Extracted: 2/24/00	Extraction Method: 3510		
1,4-Dichlorobenzene (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
2,4-Dinitrotoluene (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
Hexachlorobenzene (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
Hexachlorobutadiene (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
Hexachloroethane (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
2-Methylphenol (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
3- & 4-Methylphenol (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
Nitrobenzene (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
Pentachlorophenol (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
2,4,5-Trichlorophenol (TCLP), mg/L	< 0.005	0.005	SW 846	8270B
2,4,6-Trichlorophenol (TCLP), mg/L	< 0.005	0.005	SW 846	8270B

Approved By:

Amy Jo Portlock, QA Officer

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SALT LAKE CITY UTAH 84107 6905
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CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 2/25/00

To: Wilson Environmental Management Inc
Attn: CB Jacobson
827 W. 1340 S
Provo, UT 84601

Group #: 35770
Lab #: 00-U001520
Project: WEM HOU-03
Sample Desc: WGA-Comp.

Date Sampled: 2/18/00
Date Submitted: 2/21/00

Time Sampled: 16:40
Time Received: 11:45

TCLP Evaluation

EPA Hazardous Waste No.	Parameter	Regulatory Limit mg/L (ppm)	Sample Result mg/L (ppm)	
	Flash Point	140	> 200	Pass
D004	Arsenic	5.0	< 0.2	Pass
D005	Barium	100.0	0.5	Pass
D006	Cadmium	1.0	< 0.01	Pass
D007	Chromium	5.0	< 0.02	Pass
D008	Lead	5.0	< 0.1	Pass
D009	Mercury	0.2	Not Entered	Pass
D010	Selenium	1.0	< 0.1	Pass
D011	Silver	5.0	< 0.01	Pass
D018	Benzene	0.5	< 0.02	Pass
D019	Carbon Tetrachloride	0.5	< 0.05	Pass
D021	Chlorobenzene	100.0	< 0.02	Pass
D022	Chloroform	6.0	< 0.05	Pass
D023	o-Chresol	200.0	< 0.005	Pass
D024&D025	m,p-Cresol	200.0	< 0.005	Pass
D027	1,4-Dichlorobenzene	7.5	< 0.1	Pass
D028	1,2-Dichloroethane	0.5	< 0.05	Pass
D029	1,1-Dichloroethylene	0.7	< 0.05	Pass
D030	2,4-Dinitrotoluene	0.13*	< 0.005	Pass
D032	Hexachlorobenzene	0.13*	< 0.005	Pass
D033	Hexachlorobutadiene	0.5	< 0.1	Pass
D034	Hexachloroethane	3.0	< 0.005	Pass
D035	Methyl Ethyl Ketone	200.0	< 0.6	Pass
D036	Nitrobenzene	2.0	< 0.005	Pass
D037	Pentachlorophenol	100.0	< 0.005	Pass
D038	Pyridine	5.0*	< 5	Pass
D039	Tetrachloroethylene	0.7	< 0.05	Pass
D040	Trichloroethylene	0.5	< 0.05	Pass
D041	2,4,5-Trichlorophenol	400.0	< 0.005	Pass
D042	2,4,6-Trichlorophenol	2.0	< 0.005	Pass
D043	Vinyl Chloride	0.2	< 0.05	Pass

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 8905
801 262 7298 PHONE
801 262 7378 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

To: Wilson Environmental Management Inc
Attn: CB Jacobson
827 W. 1340 S.
Provo, UT 84601

Date: 2/25/00

Group #: 35770
Lab #: 00-U001520
Project: WEM HOU- 03
Sample Desc: WGA-Comp.

Date Sampled: 2/18/00
Date Submitted: 2/21/00

Time Sampled: 16:40
Time Received: 11:45

TCLP Evaluation

- *If quantitation limit for Pyrene is greater than regulatory limit, the quantitation limit becomes the regulatory limit.
- *If quantitation limit for 2,4-Dinitrotoluene is greater than regulatory limit, the quantitation limit becomes the regulatory limit.
- *If quantitation limit for Hexachlorobenzene is greater than regulatory limit, the quantitation limit becomes the regulatory limit.

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SALT LAKE CITY UTAH 84107 6905
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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
Rio Brazos Road
Farmington, NM 87410
District IV - (505) 827-7131

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

Form C-138
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Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ <i>Donne Faust.</i>	4. Generator <i>Cathodic Protection Services</i>
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site <i>C.P. well</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>	6. Transporter <i>Island.</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)	<i>Sec 31, T26N, R12W</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

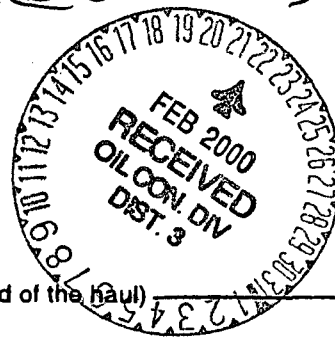
BRIEF DESCRIPTION OF MATERIAL:

Soil cuttings and water from soil boring installed to construct cathodic Protection well. (under dust palliative on access road @ LF2 units)

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Oil Conservation Division



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

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 02-17-00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: *Donne Faust* TITLE: Geologist DATE: 2/22/00
APPROVED BY: *Monty J. Kelly* TITLE: Environmental Geologist DATE: 2/23/00



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-8178 Fax (505) 334-8179

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: CATHOLIC PROTECTION SERVICES 2026 N. SULLIVAN FARMINGTON, NM 87499	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64 Farmington, NM 87401
3. Originating Site (name): R 12W, TWP 26 N, Sec. 31 IN SAN JUAN COUNTY, N.M. Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste WATER AND MUD	

I, JOHN CAYFORD representative for:
(Print Name)

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

☐ EXEMPT oilfield waste

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

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

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

- ☐ MSDS Information
☐ RCRA Hazardous Waste Analysis
☐ Chain of Custody

☒ Other (description): KNOWLEDGE OF PROCESS

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

Name (Original Signature): [Signature]

Title: _____

Date: 02/17/2000

District I - (505) 393-6161
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Artesia, NM 87410
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New Mexico
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Oil Conservation Division
2040 South Pacheco Street
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Originated 8/8/95

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Env. Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Douglas Schumacher</u>
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site <u>Bloomfield Hwy</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>3106 Bloomfield Hwy.</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Soda Ash used to Absorb & Neutralize 22 gallons of 20% HCL Spilled on Bloomfield Hwy



Estimated Volume 1 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.18.00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Darryl Z. Zent TITLE: Geologist DATE: 2/22/00
APPROVED BY: Monty J. [Signature] TITLE: Environmental Geologist DATE: 2/23/00



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
GOVERNOR

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 324-5175 Fax (505) 324-5176

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: <u>PCHUMBERGER - DOWELL</u> <u>3106 BLOOMFIELD HWY</u> <u>FARMINGTON, N.MEX.</u>	2. Destination Name: <u>Envirotech Inc.</u> <u>Soil Remediation Remediation Facility</u> <u>Landfarm #2, Hilltop, New Mexico</u> <u>5796 IIS Hwy 64, Farmington, NM 87401</u>
3. Originating Site (name): <u>3106 BLOOMFIELD HWY</u> <u>APPROX 1/4 MILE WEST ON HWY 64</u>	Location of the Waste (Street address &/or ULSTR): <u>SP2H BY FRONT ENTRANCE AND</u>
Attach list of originating sites as appropriate	
4. Source and Description of Waste <u>SODA ASH USED TO NEUTRALIZE</u> <u>20% HCL - 27 BALS</u>	

I, STEPHAN R. SWORD representative for:
(Print Name)
PCHUMBERGER - DOWELL do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check appropriate classification)
☐ EXEMPT oilfield waste ☒ NON-EXEMPT oilfield waste which is non-hazardous by characteristic
analyses or by product identification

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

For NON-EXEMPT waste the following documentation is attached (check appropriate items):
☒ MSDS information ☐ Other (description):
☐ RCRA Hazardous Waste Analysis
☐ Chain of Custody

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

Name (Original Signature): Stephan R. Sword
Title: Bulk Plant Supervisor
Date: 1/26/2000

**Dowell****MATERIAL SAFETY DATA SHEET**

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

DOWELL PRODUCT CODE:

M003

Effective Date:

04-March-1997

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

SODA ASH M3

Company/undertaking identification:

Dowell Safety/Environment - Worldwide

300 Schlumberger Drive

Sugar Land, Texas 77478, USA

Corporate Emergency Phone:

USA 1-281-595-3518

Corporate Non-Emergency Phone:

USA 1-281-285-8081

2. COMPOSITION/INFORMATION ON INGREDIENTS

SODIUM CARBONATE; CAS 497-19-8; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

White

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

dust

Main Health Hazards:

HMIS RATING: Health 1 Flammability 0 Reactivity 0

May cause eye irritation.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air.

Swallowing:

Rinse mouth with water. Seek medical attention if irritation occurs.

Notes:

None.

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not combustible.

Method:

Not applicable

DOWELL PRODUCT CODE:

M003

Effective Date:

04-March-1997

Flammability (explosion limits in air):

Lower:

Not applicable

Upper:

Not applicable

Autoflammability (auto-ignition temperature):

Not applicable

Explosive properties (thermal decomposition temperature):

Not determined

NFPA Rating: Health 1 Flammability 0 Reactivity 0 Other: None

Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Scoop into containers. Flush residual with plenty of water.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

No special precautions required.

Packaging requirements:

Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.

Ventilation:

Provide ventilation to keep airborne concentrations below exposure limits.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:

Use NIOSH approved respirator with dust and mist protection (color coded gray or 3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: PVC Butyl

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

No components have established exposure limits.

Dust particles: total = 10 mg/m3, respirable fraction = 5 mg/m3.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:

Powder

Color:

White

Odor:

None

pH value:

11.6 (at 10.6 g/l)

Boiling point:

Decomposes 2912°F

Pour point:

1564°F

Vapor pressure:

Not applicable

Relative density (specific gravity):

2.5 (68°F)

Bulk Density (solids):

Not determined

Solubility in water:

210 g/l (68°F)

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Not applicable

% Volatile:

Not determined

Nature

Alkaline

DOWELL PRODUCT CODE:

M003

Effective Date:

04-March-1997

10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	Not determined
Materials to avoid:	Acids
Hazardous Polymerization:	Will not occur.
Dust explosion hazard (solids):	Not applicable.
Special hazards:	None.
Hazardous decomposition products:	None.

11. TOXICOLOGICAL INFORMATION

Eye contact:	Irritant. May cause pain, redness, discomfort.
Skin contact:	No effect expected. Prolonged or repeated contact may cause mild irritation.
Inhalation:	No effect expected. Prolonged or repeated exposure may cause mild irritation. LC50 (mouse) = 2300 mg/kg.
Ingestion:	No effect expected. Swallowing large amounts may cause illness. LD50 (rats) = 4090 mg/kg.
Carcinogenicity:	Not listed by IARC, USA NTP, or USA OSHA.
Mutagenicity:	Not known to cause heritable genetic damage.
Teratogenicity:	Not known to cause birth defects.
Target organs which may be affected:	None known.
Sensitization:	Not known to cause allergic reaction.
Other:	None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:	
Main environmental hazards:	None known.
Degradability:	Not applicable
Fish Toxicity:	Low toxicity to fish.
Acute invertebrates toxicity:	Not determined
Growth Inhibition (algae):	Not determined
Other:	None known.

13. DISPOSAL CONSIDERATIONS

Product:	Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.
Container:	Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.
USA EPA RCRA:	None.

14. TRANSPORT INFORMATION

ICC Tariff Classification	Compound, Gas or Oil Well Drilling		
ICC Item Number:	138640	ICC Class:	50 LTL TL

DOWELL PRODUCT CODE: M003 Effective Date: 04-March-1997

CERCLA RQ: Not established.
Department of Transportation (DOT)

Designation: Not Regulated
Hazard Class: Not Regulated
Shipping Name: Not Regulated
DOT Label:

Canadian Shipments

Shipping Name: Not Regulated
Label:

Classification: Package Group: PIN: none

15. REGULATORY INFORMATION

Notification/restrictions status:

USA:

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

CANADA:

All components of this material are on the Canada DSL, or the components are exempt from inventory reporting.

This product contains no chemicals subject to the USEPA reporting requirements of SARA 313.
The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: Not established.

Canadian WHMIS classification: D2B

16. OTHER INFORMATION

Sections affected by last revision:

EXPOSURE CONTROLS/PERSONAL PROTECTION

*Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell regarding the accuracy or completeness of the information.

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

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

Form C-138
Originated 3/8/95

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Environmental Bureau
Oil Conservation Division

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Navajo Nation</u>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <u>Diesel Spill on Route 36</u>
2. Management Facility Destination <u>Tierra Land Farm</u>	6. Transporter <u>Navajo Nation</u>
3. Address of Facility Operator <u>#420 CR 3100 Aztec</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>1/2 Mile North on Navajo Route 36</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil From Diesel Fuel spill



Estimated Volume 28 cy Known Volume (to be entered by the operator at the end of the haul) 28 cy

SIGNATURE: David Barawitz TITLE: Land Farm Manager DATE: 2-10-00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Barawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny Z. Fount TITLE: Geologist DATE: 2/14/00
APPROVED BY: Monty J. Kibb TITLE: Environmental Geologist DATE: 2/16/00

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: The Navajo Nation Department of Water Resources Operation/Maintenance P.O. Box 57 Shiprock, NM 87420 Attn.: David White	2. Destination Name: Tierra Environmental Co. Inc. 420 Rd. 3100 Aztec, New Mexico 87410
3. Originating Site (name): Diesel Spill 1/2 mile North of Navajo Route 36 Navajo Nation, San Juan County, New Mexico	Location of the Waste (Street address &/or ULSTR): Diesel Spill 1/2 mile North of Navajo Route 36 Navajo Nation, San Juan County, New Mexico
3. Source and Description of Waste Diesel Contaminated Soil	

I, Larry Trujillo as an Agent for: The Navajo Nation, Department of Water Resources (as designated by the Department of Emergency Management) do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1996, regulatory determination, the above-described waste is: (Check appropriate classification)

EXEMPT oilfield waste

☒ NON-EXEMPT non-hazardous waste by characteristic analysis or by product identification

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

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

☐ MSDS Information

☒ Other (description): Knowledge of Process.

☐ RCRA Hazardous Waste Analysis

☐ Chain of Custody

Name (Original Signature):

Title:

Date:

Larry Trujillo

Sr. Environmental Tech

2/4/00



THE NAVAJO NATION

KELSEY A. BEGAYE
PRESIDENT

TAYLOR MCKENZIE, M.D.
VICE PRESIDENT

February 8, 2000

Mr. Phil Nobels, Tierra
PO Drawer 15250
Farmington, NM 87401

Dear Mr. Nobels:

This letter is in reference to the diesel fuel spill that occurred on February 2, 2000, north of N36 Highway.

The diesel fuel spill needs to be removed due to it being a public health threat and that it is in a residential area. The contaminated soil will be transported to your yard this afternoon.

If you have any questions, please call me at 505-368-1231.

Sincerely,

A handwritten signature in cursive script that reads "Allan Jones".

Allan Jones, Project Manager
Department of Emergency Management

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

00013

1. RCRA Exempt: ☐ Non-Exempt: ☒ <u>D. Foust</u> Verbal Approval Received <u>2-7-00</u> Yes ☒ No ☐	4. Generator <u>Key Energy Service</u> 5. Originating Site <u>Key's Linderoth yard</u>
2. Management Facility Destination <u>Tierra Land Farm</u>	6. Transporter <u>Key</u>
3. Address of Facility Operator # <u>420 CR 3100 Aztec</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR) <u>Key's Linderoth yard</u>	<u>Mile Marker 13 Hwy 575</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil From Diesel Fuel Spill



Estimated Volume 77 cy Known Volume (to be entered by the operator at the end of the haul) 77 cy

SIGNATURE: David Borawitz TITLE: Land Farm Manager DATE: 2-7-00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Borawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Kerry G. Foust TITLE: Geologist DATE: 2/14/00
APPROVED BY: Martyn G. Kelly TITLE: Environmental Geologist DATE: 2/16/00

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Key Energy Services 5651 W. 2nd Hwy 64 Farmington, NM 87401	2. Destination Name: Tierra Environmental Company
3. Originating Site (name): Linderoth, NM Yard	Location of the Waste (Street address &/or ULSTR): Mile Marker 13, Hwy 575 Linderoth, NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste Diesel Fuel Spill, Contaminated Soil	

I, Robert W. James representative for:
 (Print Name)
Key Energy Services, Fuel Services Division 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

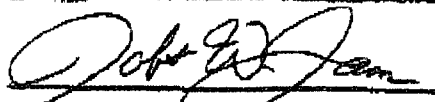
and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

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):



Title:

Fuel Shop Manager

Date:



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification			
Trade name	Diesel #2 Oil	Code	000456
Supplier	Finia Oil and Chemical Co P.O. Box 2159 Dallas, TX 75221	MSDS#	P33
Synonym	Fuel Oil # 2, Furnace Oil #2	Validation Date	3/25/99
MSDS Name	Diesel Oil #2	Print Date	9/13/99
Chemical Family	Hydrocarbon Mixture	Responsible for Preparation	Larry Myers
CAS Registry Number	68476-34-6	In Case of Emergency	Chemtrec: (800) 424-9300 FINA: (800) 322-FINA
Threshold Limit Value	TWA: 100 (mg/m ³) from NIOSH	Technical Information	Port Arthur: (409) 962-4421
Manufacturer	Finia Oil and Chemical Co P.O. Box 849 Port Arthur, TX 77641-0849		

Section 2: Composition and Information on Ingredients			
Name	CAS #	% by Weight	Exposure Limits
1) Diesel Oil #2	68476-34-6	100	TWA: 100 (mg/m ³) from NIOSH

Section 3: Hazards Identification	
Physical State and Appearance	Liquid.
Emergency Overview	COMBUSTIBLE LIQUID AND VAPOR. Vapor may cause fire. MAY CAUSE NERVOUS SYSTEM, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, EYES DAMAGE. MAY CAUSE EYE IRRITATION. Causes severe skin irritation.
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	<i>Eyes</i> Hazardous in case of eye contact (irritant). <i>Skin</i> Sensitization of the product: Not available. Very hazardous in case of skin contact (irritant). Non-corrosive for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. <i>Inhalation</i> Intoxication, dizziness, drowsiness, headache and nausea, weakness and fatigue. Burning sensation in chest, possible asphyxiation and unconsciousness. <i>Ingestion</i> Local irritation, burning sensation in mouth, esophagus, and stomach. Vomiting, belching, and diarrhea with blood-tinged feces. Drowsiness. The greatest hazard of ingestion is accidental PULMONARY ASPIRATION, which can cause potentially fatal CHEMICAL PNEUMONITIS and NONCARCINOGENIC PULMONARY EDEMA.
Potential Chronic Health Effects	Signs and symptoms of chronic exposure are similar to those of acute exposure. Skin: dermatitis. CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. Lifetime skin painting studies conducted by the American Petroleum Institute and others have shown that similar products boiling between 175-370 C (350-700 F) usually produce skin tumors and/or cancer in mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. The implications of these results for humans have not been determined. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
Medical Conditions Aggravated by Overexposure	Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Overexposure /Signs/Symptoms	Not available.
See Toxicological Information (section 11)	

Section 4: First Aid Measures

Eye Contact	Check for and remove any contact lenses. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. DO NOT use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Notes to Physician	May administer activated charcoal or gastric lavage. Emesis may result in chemical pneumonitis (#2 Diesel). Consider chest x-ray after acute overexposure and perform kidney function tests if symptoms develop or overexposure is suspected (kerosene).

Section 5: Fire Fighting Measures

Flammability of the Product	Combustible.
Auto-ignition Temperature	>204°C (399.2°F)
Flash Points	CLOSED CUP: 54.4°C (130°F). (Pensky-Martens.)
Flammable Limits	LOWER: 0.4% UPPER: 6%
Products of Combustion	carbon oxides (CO, CO2) sulfur oxides (SO2, SO3...)
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: Expected. Risks of explosion of the product in presence of mechanical impact: Not expected. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder, CO ₂ and halon. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Protective Clothing (Fire)	Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear (Bunker gear).
Special Remarks on Fire Hazards	Combustible. Avoid inhalation of vapors. May generate dense smoke while burning.
Special Remarks on Explosion Hazards	May form explosive mixtures with air. Container may explode in fire. Flashback along vapor trail may occur. May explode if ignited in an enclosed area.

Section 6: Accidental Release Measures

Small Spill and Leak	Warn personnel to move away. Eliminate ignition sources and ventilate area. Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill and Leak	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Handling	Do not breathe gas, fumes, vapor or spray. Keep away from incompatibles such as oxidizing agents. Keep away from sources of ignition.
Storage	Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition. Keep away from incompatibles as oxidizers.

Section 8: Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit values. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
	Eyes Safety glasses. Splash goggles.
	Body Flame retardant clothing covering the entire body.
Respiratory	Use a MSHA/NIOSH approved respirator or equivalent at high concentrations.

Continued on Next Page

Diesel #2 Oil

Page: 3/5

Hands: Chemical resistant gloves if contact is possible.

Feet: Not applicable.

Protective Clothing
(Pictograms)Personal Protection in Case
of a Large Spill

Splash: goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

Exposure Limits

1) Diesel Oil #2

TWA: 100 (mg/m³) from NIOSH

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Kerosene-like
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Straw color.
pH (1% Soln/Water)	Not applicable.		
Boiling/Condensation Point	160 to 354.4°C (320 to 670°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	0.87 (Water = 1)		
Vapor Pressure	1.6 mm of Hg (@ 20°C)		
Vapor Density	8 (Air = 1)		
Volatility	100% (v/v).		
Odor Threshold	Not available.		
Evaporation Rate	600 X slower compared to Ethylether		
VOC	100 (%)		
Viscosity	Not available.		
LogK _{ow}	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility in Water	Negligible.		
Physical Chemical Comments	No additional remark.		

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with Various Substances	Extremely reactive or incompatible with strong oxidizing agents.
Hazardous Decomposition Products	carbon monoxide & carbon dioxide
Hazardous Polymerization	No.

Continued on Next Page

Diesel #2 Oil

Page: 4/5

Section 11: Toxicological Information

Toxicity to Animals	Acute oral toxicity (LD50): 7500 mg/kg [Rat]. Acute oral toxicity (LD50): 9 ml/kg [Rat]. Acute dermal toxicity (LD50): >3160 mg/kg [Rabbit].
Chronic Effects on Humans	CARCINOGENIC EFFECTS: 3 (Not classifiable for human) by IARC. Lifetime skin painting studies conducted by the American Petroleum Institute and others have shown that similar products boiling between 175-370 C (350-700 F) usually produce skin tumors and/or cancer in mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. The implications of these results for humans have not been determined. The substance is toxic to the nervous system, gastro-intestinal tract, upper respiratory tract, skin, eyes.
Other Toxic Effects on Humans	Very hazardous in case of ingestion, or inhalation. Slightly hazardous in case of skin contact (Irritant), of eye contact (irritant).
Special Remarks on Toxicity to Animals	Prolonged or repeated inhalation of highly concentrated petroleum distillates caused liver tumors in mice and kidney damage and tumors in male rats. Skin paint with distillates (boiling range 100-700 F) applied repeatedly and never washed off can cause skin cancer. Chronic exposure to unfiltered diesel exhaust produced tumors in lungs and lymphomas in mice and rats.
Special Remarks on Chronic Effects on Humans	NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.
Special Remarks on Other Toxic Effects on Humans	No additional remark.

Section 12: Ecological Information

Ecotoxicity	Aquatic toxicity: 2990 ppm/24 hr (kerosene). Does not bioconcentrate in the food chain (kerosene).
BOD5 and COD	53%, 5 days (kerosene)
Biodegradable/OECD	Not available.
Mobility	Not available. Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13: Disposal Considerations

Waste Information	Recover free liquid. Transfer to an approved disposal area in accordance with federal, state, and local regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14: Transport Information

DOT Classification	DOT CLASS 3: Flammable liquid.	
	Flammable liquids n.o.s.	
	NA1993	
	Not available.	
Marine Pollutant	Not available.	
Hazardous Substances Reportable Quantity	Not available.	
Special Provisions for Transport	No additional remark.	
TDG Classification	TDG CLASS 3: Flammable liquid.	
ADR/RID Classification	ADR CLASS 3: Flammable liquid A.	
IMO/IMDG Classification	IMDG CLASS 3.1: Flammable liquid (Low flash point).	
ICAO/IATA Classification	IATA CLASS 3: Flammable liquid.	

Continued on Next Page

Section 15: Regulatory Information

HCS Classification	HCS CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
U.S. Federal Regulations	TSCA inventory: Diesel Oil #2 SARA 313 toxic chemical notification and release reporting: No products were found. Clean water act (CWA) 307: No products were found. Clean water act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
International Regulations	
WHMIS (Canada)	WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
	CEPA DSL: Diesel Oil #2
EINECS	Not available.
DSL (EEC)	R36/38- Irritating to eyes and skin.
International Lists	No products were found.
State Regulations	Pennsylvania RTK: Diesel Oil #2 California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: No products were found.

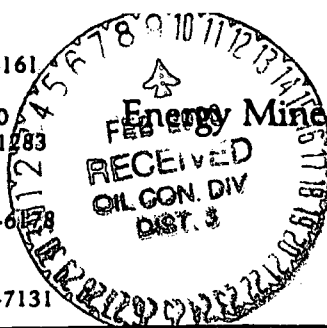
Section 16: Other Information

Label requirements	COMBUSTIBLE LIQUID AND VAPOR. Vapor may cause fire. MAY CAUSE NERVOUS SYSTEM, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, EYES DAMAGE.								
Hazardous Material Information System (U.S.A.)	<table><tr><td>Flammability</td><td>* 1</td></tr><tr><td>Reactivity</td><td>2</td></tr><tr><td>Personal Protection</td><td>0</td></tr></table>	Flammability	* 1	Reactivity	2	Personal Protection	0	National Fire Protection Association (U.S.A.)	 Fire Hazard Health Reactivity Specific Hazard
Flammability	* 1								
Reactivity	2								
Personal Protection	0								
References	LOLI AND TOMES (Vol 37: RTECS, CHRIS, & NEW JERSEY HAZARDOUS SUBSTANCE FACT SHEETS)								
Other Special Considerations	No additional remark.								
Validated by Larry Myers on 3/25/99.	Verified by Paul Bradley. Printed 9/13/99.								
Chemtree: (800) 424-9300 FINA: (800) 322-FINA									

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that there are the only hazards that exist.

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

BRIEF DESCRIPTION OF MATERIAL:

Continuation of waste bag solids.

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02-09-00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Feut TITLE: Geologist DATE: 02/09/00
APPROVED BY: Monty J. Kirby TITLE: Environmental Geologist DATE: 02/11/00



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: <i>Doug Hodges "Halliburton ES"</i> <i>4109 East Main Farmington 87401</i>	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name): <i>Halliburton Energy Services</i>	Location of the Waste (Street address &/or ULSTR): <i>4109 East Main Farmington NM 87401</i>
Attach list of originating sites as appropriate	
4. Source and Description of Waste <i>Wash Rock</i> <i>Grind Wnt</i>	

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

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

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

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

☒ MSDS Information
☒ RCRA Hazardous Waste Analysis
☒ Chain of Custody

☐ Other (description):

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

Name (Original Signature):

Title:

2.9-100

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCLP

11-21-99

Printed Name

DOUG HODGES

Title / Agency

Maintenance Supv -
Halldale Energy S

Address

4109 E MainFarmington NM Mex 87401

Signature

Doug Hodges

Date

2-09-00

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 28, 1999

Mr. Ed Shannon
Halliburton Energy Services, Inc.
4109 East Main Street
Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Shannon,

Enclosed are the analytical results for the sample collected from the location designated as "East Main, Farmington-Wash Bay Solids". One soil sample was collected by Envirotech personnel on 01/13/99, and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 6498 and assigned Laboratory No. E499 for tracking purposes. The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

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

Respectfully submitted,
Envirotech, Inc.



Stacy W. Sandler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp0199.lb1

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99
Lab ID#:	E499	Date Sampled:	01-13-99
Sample Matrix:	Soil	Date Received:	01-13-99
Preservative:	Cool	Date Analyzed:	01-15-99
Condition:	Cool and Intact	Chain of Custody:	6498

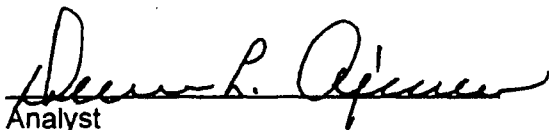
Parameter	Result
IGNITABILITY:	Negative
CORROSIVITY:	Negative pH = 7.98
REACTIVITY:	Negative

RCRA Hazardous Waste Criteria

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

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

Comments: East Main, Farmington.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-19-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

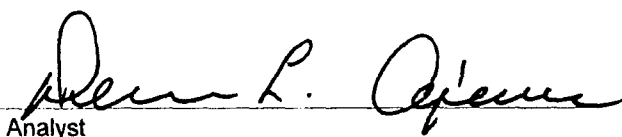
ND - Parameter not detected at the stated detection limit.

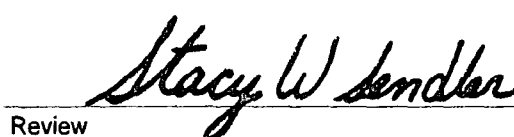
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

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

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

Comments: East Main, Farmington.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.123	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	0.060	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

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

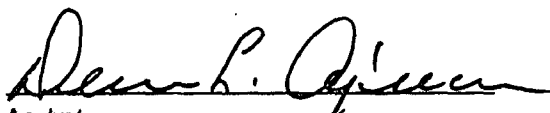
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

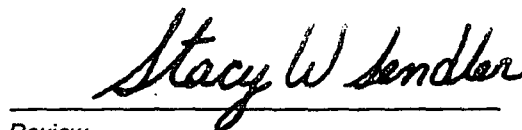
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: East Main, Farmington.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.054	0.020	5.0
Hexachloroethane	0.353	0.020	3.0
Nitrobenzene	0.202	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

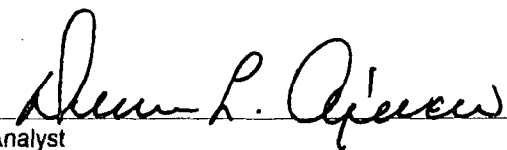
ND - Parameter not detected at the stated detection limit.

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: East Main, Farmington.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.0001	5.0
Barium	1.53	0.001	21
Cadmium	0.0329	0.0001	0.11
Chromium	0.0301	0.0001	0.60
Lead	0.0309	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

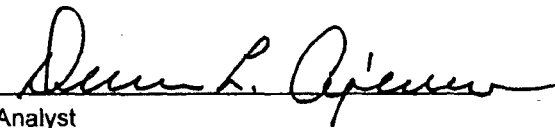
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

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

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

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

Comments: East Main, Farmington.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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:	01-19-99
Laboratory Number:	01-19-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Analysis Requested:	TCLP

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

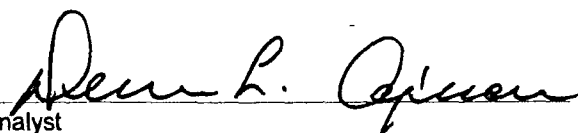
ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

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:	01-19-99
Laboratory Number:	01-18-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	01-18-99
		Analysis Requested:	TCLP

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

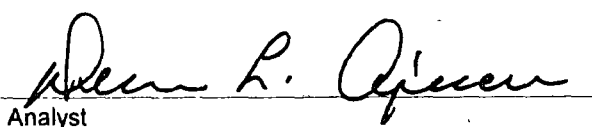
ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

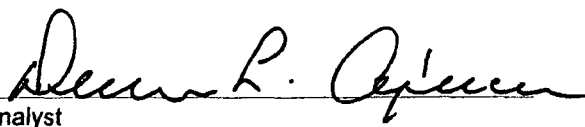
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	N/A

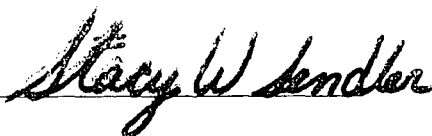
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%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

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: E499
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

Project #: N/A
Date Reported: 01-19-99
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 01-19-99
Date Extracted: N/A

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

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

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:	01-21-99
Laboratory Number:	01-21-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-21-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

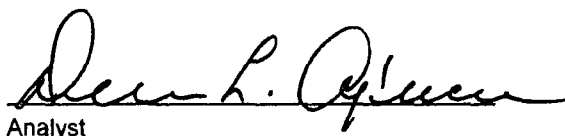
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

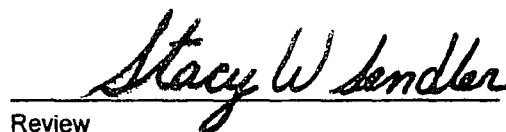
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

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:	01-21-99
Laboratory Number:	01-18-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

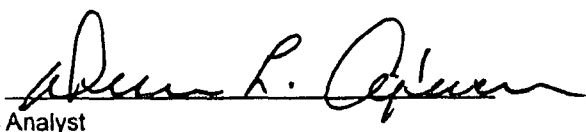
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

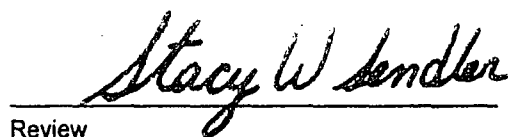
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

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:	01-21-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	0.060	0.059	0.020	1.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	0.556	0.551	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

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

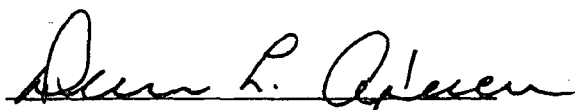
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

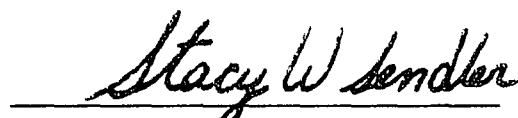
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-22-99
Laboratory Number:	01-21-TBN - Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

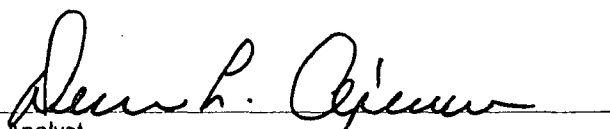
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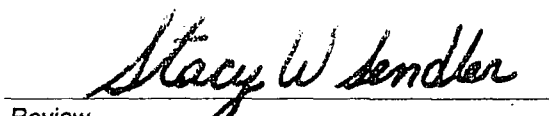
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

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:	01-22-99
Laboratory Number:	01-18-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool and Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

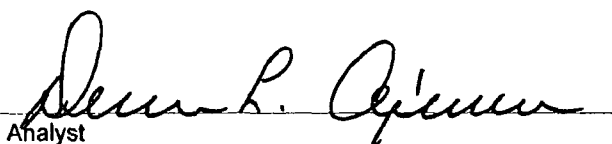
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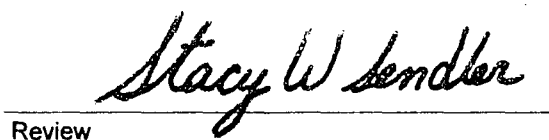
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: E499
Sample Matrix: TCLP Extract
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 01-22-99
Date Sampled: N/A
Date Received: N/A
Date Extracted: 01-18-99
Date Analyzed: 01-21-99
Analysis Requested: TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.054	0.053	1.0%	0.020
Hexachloroethane	0.353	0.349	1.0%	0.020
Nitrobenzene	0.202	0.200	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
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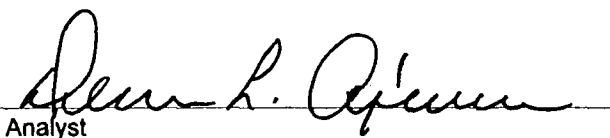
8090 Compounds

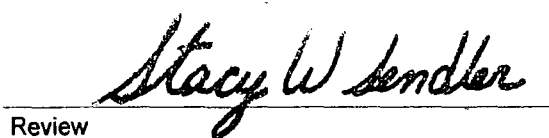
30%

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

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

Comments: QA/QC for samples E499 and E503.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	01-23-TCM QA/QC	Date Reported:	01-23-99
Laboratory Number:	E449	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	01-23-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.53	1.53	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.0329	0.0324	1.5%	0% - 30%
Chromium	ND	ND	0.0001	0.0301	0.0300	0.3%	0% - 30%
Lead	ND	ND	0.0001	0.0309	0.0307	0.6%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic		0.1000	ND	0.0997	99.7%		80% - 120%
Barium		1.000	1.53	2.53	100.0%		80% - 120%
Cadmium		0.0500	0.0329	0.0826	99.6%		80% - 120%
Chromium		0.0500	0.0301	0.0802	100.1%		80% - 120%
Lead		0.1000	0.0309	0.131	99.8%		80% - 120%
Mercury		0.0250	ND	0.0248	99.2%		80% - 120%
Selenium		0.1000	ND	0.0998	99.8%		80% - 120%
Silver		0.0500	ND	0.0499	99.8%		80% - 120%

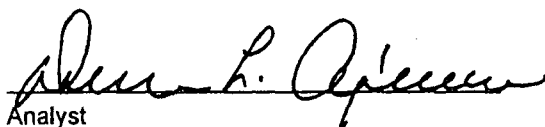
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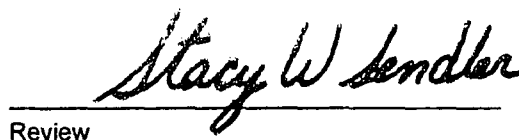
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: QA/QC for samples E499 and E503.

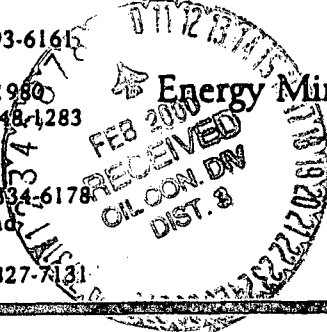

Analyst


Review

6498

[illegible]

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



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

RECEIVED
FEB 11 2000
Environmental Bureau
Oil Conservation Division
Env. JN: 99043-02

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Hanover Compression</u>
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site <u>Shop</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>1280 Teot Hong Rd. Farmington, NM</u>
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

oily dirt from floor drain trench

Estimated Volume 1 drum cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.09.00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Faint TITLE: Geologist DATE: 02/09/00
APPROVED BY: Margaret J. Kuly TITLE: Environmental Geologist DATE: 02/11/00



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
GOVERNOR

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1008 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 324-6170 Fax (505) 324-6170

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: HANOVER COMPRESSOR CO. 1280 TROY KING RD. FARMINGTON NM. 87401	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
3. Originating Site (name): HANOVER SHOP	Location of the Waste (Street address &/or ULSTR): 1280 TROY KING RD. FARMINGTON NM. 87401
Attach list of originating sites as appropriate	
4. Source and Description of Waste FLOOR DRAIN CATCH PIT	

1. GEORGE PHILLIPS

(Print Name)

representative for:

HANOVER COMPRESSOR CO.

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

☐ EXEMPT oilfield waste

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

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

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

☐ MSDS Information
☒ RCRA Hazardous Waste Analysis
☒ Chain of Custody

☐ Other (description):

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

Name (Original Signature): George Phillips

Title: ENVIRONMENTAL & SAFETY COORDINATOR

Date: 2/2/2000

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 28, 2000

Mr. George Phillips
Hanover Compression, Inc.
1280 Troy King Road
Farmington, NM 87401

Phone (505) 325-3220

Client No.: 99043

Job No.: 904302

Dear Mr. White,

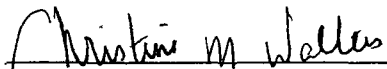
Enclosed are the analytical results for the sample collected from the location designated as "Floor Drains - Shop". One soil sample was collected by Hanover Compression personnel on 1/21/00, and received by the Envirotech laboratory on 1/21/00 for Hazardous Waste Characterization analysis (TCLP Volatiles, Semi-volatiles, Trace Metals, Ingibility, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 7626 and assigned Laboratory Nos. G719 (Composite from Floor Drains) for tracking purposes.

The samples were analyzed 1/24/00 through 1/27/00 using USEPA or equivalent methods.

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

Respectfully submitted,
Envirotech, Inc.



Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/burl.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-24-00
Lab ID#:	G719	Date Sampled:	01-21-00
Sample Matrix:	Sludge	Date Received:	01-21-00
Preservative:	Cool	Date Analyzed:	01-24-00
Condition:	Cool and Intact	Chain of Custody:	7629

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

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 7.73

REACTIVITY: Negative

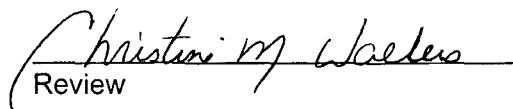
RCRA Hazardous Waste Criteria

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: Floor Drains - Shop.


Analyst


Review

ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Extracted:	01-24-00
Preservative:	Cool	Date Analyzed:	01-25-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

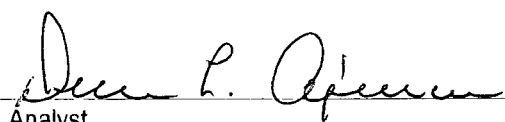
ND - Parameter not detected at the stated detection limit.

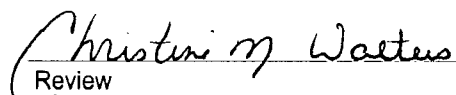
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

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

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

Comments: **Floor Drains - Shop.**


Analyst


Review

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Extracted:	01-24-00
Preservative:	Cool	Date Analyzed:	01-27-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

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

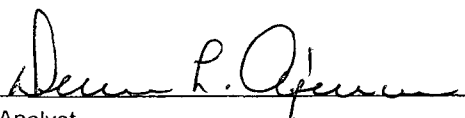
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

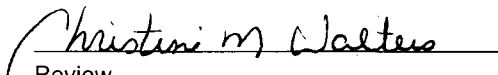
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: **Floor Drains - Shop.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Extracted:	01-24-00
Preservative:	Cool	Date Analyzed:	01-27-00
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

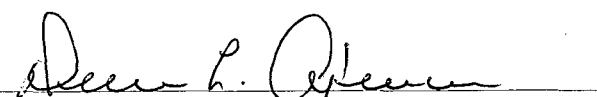
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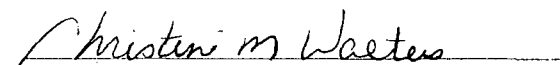
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	100%

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

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

Comments: Floor Drains - Shop.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Analyzed:	01-26-00
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.407	0.001	5.0
Barium	0.720	0.001	21
Cadmium	0.025	0.001	0.11
Chromium	0.024	0.001	0.60
Lead	0.075	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

ND - Parameter not detected at the stated detection limit.

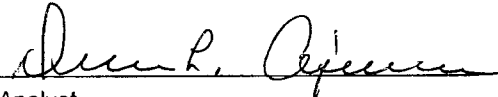
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

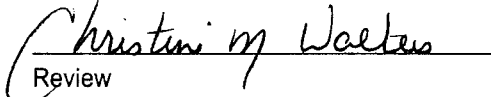
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Floor Drains - Shop.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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:	01-26-00
Laboratory Number:	01-25-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-25-00
Condition:	N/A	Analysis Requested:	TCLP

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

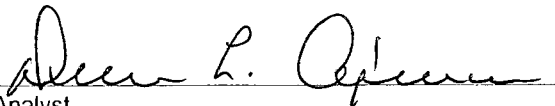
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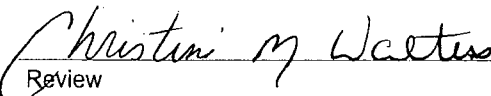
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

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

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

Comments: QA/QC for sample G719.


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:	01-26-00
Laboratory Number:	01-24-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-25-00
Condition:	N/A	Date Extracted:	01-24-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

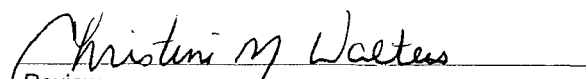
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

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

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

Comments: QA/QC for sample G719.


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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: G719
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

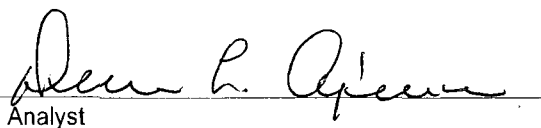
Project #: N/A
Date Reported: 01-26-00
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 01-25-00
Date Extracted: 01-24-00

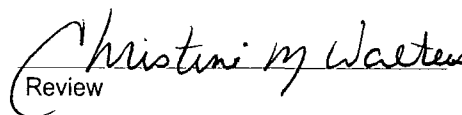
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%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

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G719.


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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
Sample ID: Matrix Spike
Laboratory Number: G719
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

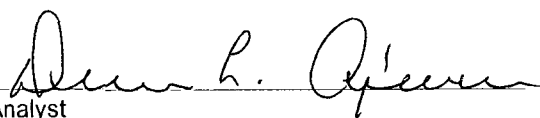
Project #: N/A
Date Reported: 01-26-00
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 01-25-00
Date Extracted: 01-24-00

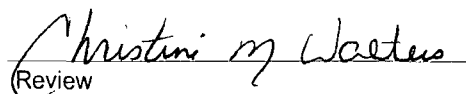
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform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

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G719.


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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:	01-27-00
Laboratory Number:	01-27-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-27-00
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

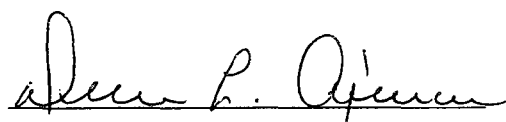
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

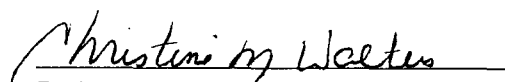
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G719.


Analyst


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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:	01-27-00
Laboratory Number:	01-24-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

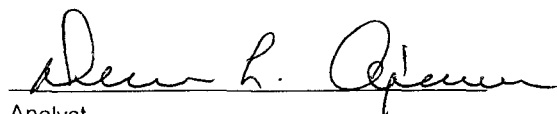
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

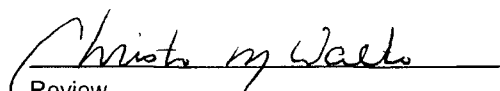
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G719.


Analyst


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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:	01-27-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

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

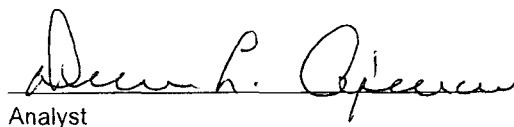
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

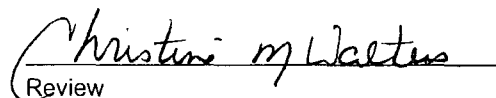
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G719.


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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:	01-27-00
Laboratory Number:	01-27-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

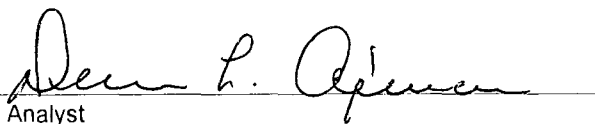
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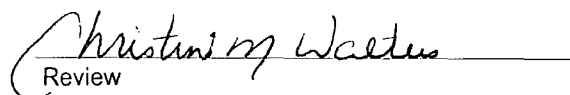
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

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

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

Comments: QA/QC for sample G719.


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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:	01-27-00
Laboratory Number:	01-24-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool and Intact	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

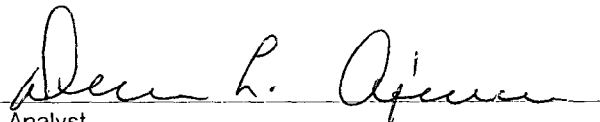
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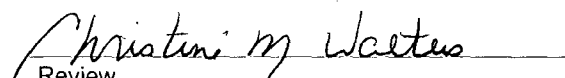
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

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

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

Comments: QA/QC for sample G719.


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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:	01-27-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-24-00
Condition:	N/A	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

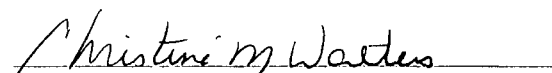
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

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

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

Comments: QA/QC for sample G719.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	01-26-TCM QA/QC	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	01-26-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.407	0.409	0.5%	0% - 30%
Barium	ND	ND	0.001	0.720	0.722	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.025	0.025	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.024	0.024	0.0%	0% - 30%
Lead	ND	ND	0.001	0.075	0.074	1.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.407	0.906	99.9%	80% - 120%
Barium	0.500	0.720	1.22	100.0%	80% - 120%
Cadmium	0.500	0.025	0.524	99.8%	80% - 120%
Chromium	0.500	0.024	0.523	99.8%	80% - 120%
Lead	0.500	0.075	0.573	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.498	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

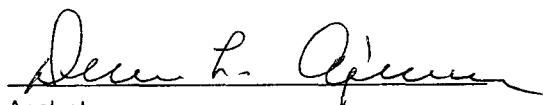
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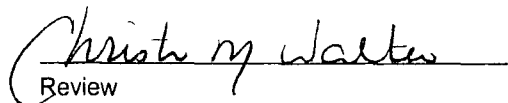
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

Comments: QA/QC for sample G719.

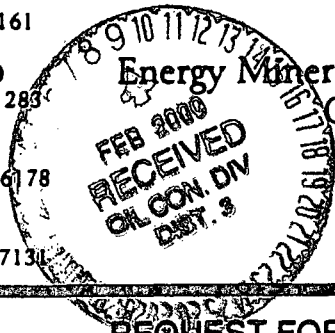

Analyst


Review

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



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

RECEIVED
FEB 11 2000
Environmental Bureau
Oil Conservation Division
Env. JN: 97057-23

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒ Verbal to Hold pending results 12.21.99 D.E.	4. Generator <u>EPFS</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>Hartman Canyon Camp Sta.</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR)	8. State <u>New Mexico</u> <u>SESE, 5046, T27N, R6W</u> <u>Rio Arriba County NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of 1 1/2 gal oil spill from broken hose on compressor

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.09.00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Kent TITLE: Geologist DATE: 02/09/00
APPROVED BY: Martyn J. Kent TITLE: Environmental Geologist DATE: 02/11/00

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Location of Waste(Street address &/or ULSTR): Martinez Canyon Compressor Station Rio Arriba County, New Mexico SE/4, SE/4, Section 16, T27N, R6W Attach list of originating sites as appropriate	
4. Source and Description of Waste Soil contaminated with lube oil from gasket failure	

I, David Bays representative for:
(Print Name)

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

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

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

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

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

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: January 18, 2000

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Service	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	12-28-99
Lab ID#:	G649	Date Sampled:	12-21-99
Sample Matrix:	Soil	Date Received:	12-21-99
Preservative:	Cool	Date Analyzed:	12-28-99
Condition:	Cool and Intact	Chain of Custody:	7608

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

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 8.82

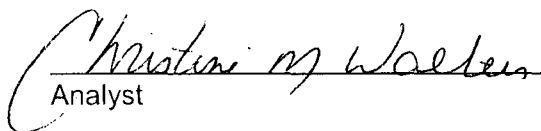
REACTIVITY: Negative

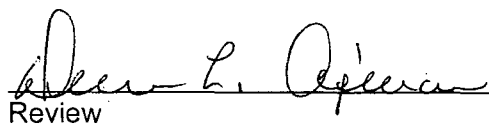
RCRA Hazardous Waste Criteria

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: Mantinez Canyon Compressor Station.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-07-99
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-29-99
Preservative:	Cool	Date Analyzed:	01-07-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

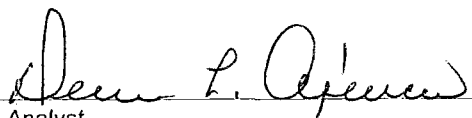
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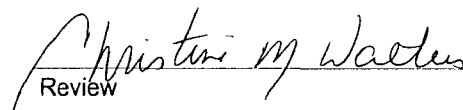
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

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

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

Comments: **Martinez Canyon Compressor Station.**


Analyst


Review

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-07-00
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-29-99
Preservative:	Cool	Date Analyzed:	01-07-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

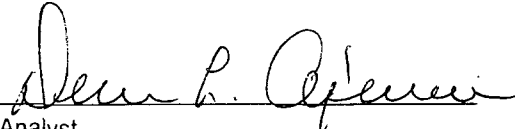
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

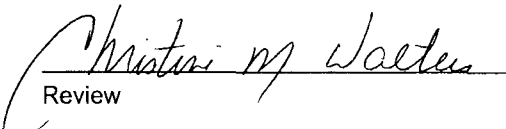
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: Mantinez Canyon Compressor Station.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-07-00
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-29-99
Preservative:	Cool	Date Analyzed:	01-07-00
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

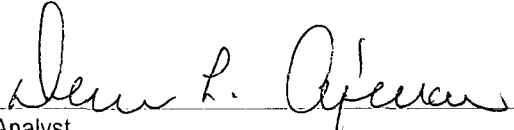
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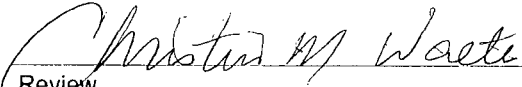
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

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

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

Comments: Mantinez Canyon Compressor Station.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-10-00
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Analyzed:	01-08-00
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	1.24	0.001	21
Cadmium	ND	0.001	0.11
Chromium	ND	0.001	0.60
Lead	ND	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

ND - Parameter not detected at the stated detection limit.

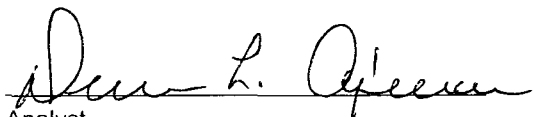
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

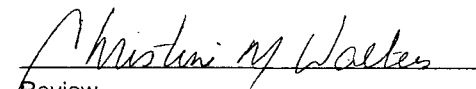
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Martinez Canyon Compressor Station.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-07-00
Laboratory Number:	01-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-00
Condition:	N/A	Analysis Requested:	TCLP

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

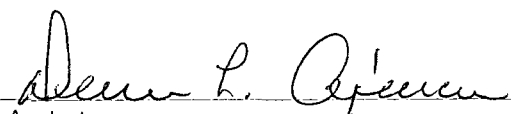
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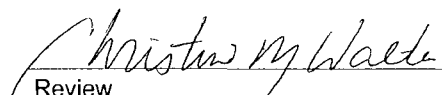
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

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

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

Comments: QA/QC for sample G649.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-07-00
Laboratory Number:	12-29-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-00
Condition:	N/A	Date Extracted:	12-29-99
		Analysis Requested:	TCLP

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

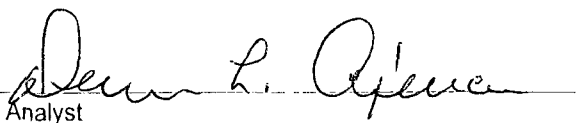
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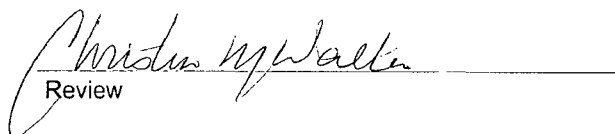
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

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

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

Comments: QA/QC for sample G649.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: G649
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

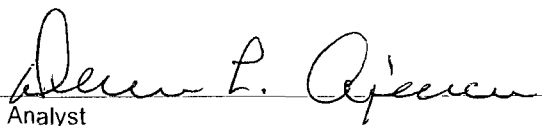
Project #: N/A
Date Reported: 01-07-00
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 01-07-00
Date Extracted: 12-29-99

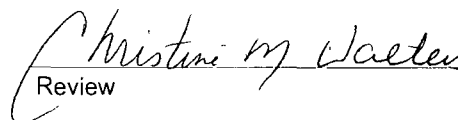
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%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

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G649.


Analyst


Review

ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: G649
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

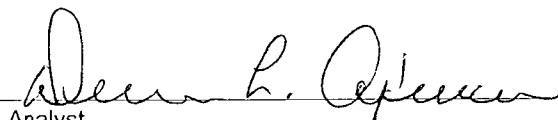
Project #: N/A
Date Reported: 01-07-00
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 01-07-00
Date Extracted: 12-29-99

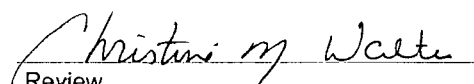
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform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

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G649.


Analyst


Review

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:	01-07-00
Laboratory Number:	01-07-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-00
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

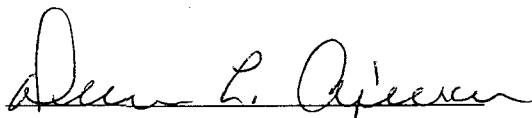
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

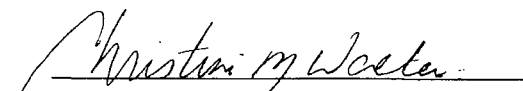
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G649.


Analyst


Review

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:	01-07-00
Laboratory Number:	12-29-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool & Intact	Date Analyzed:	01-07-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

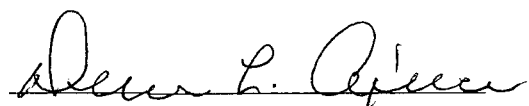
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

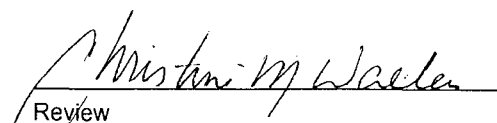
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G649.


Analyst


Review

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:	01-07-00
Laboratory Number:	G629	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool & Intact	Date Analyzed:	01-07-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

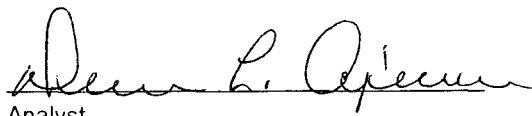
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

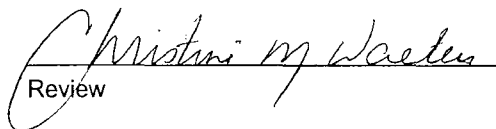
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G649.


Analyst


Review

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
Sample ID: Laboratory Blank
Laboratory Number: 01-07-TBN
Sample Matrix: Hexane
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 01-07-00
Date Sampled: N/A
Date Received: N/A
Date Extracted: N/A
Date Analyzed: 01-07-00
Analysis Requested: TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

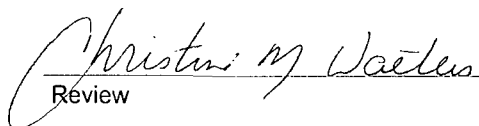
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

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

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

Comments: QA/QC for sample G649.


Analyst


Review

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:	01-07-00
Laboratory Number:	12-29-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool and Intact	Date Analyzed:	01-07-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

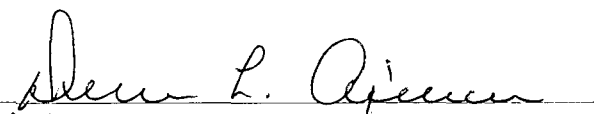
ND - Parameter not detected at the stated detection limit.

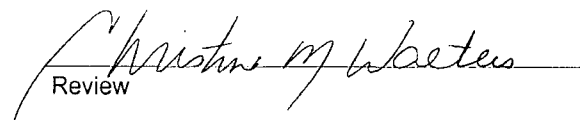
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

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

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

Comments: QA/QC for sample G649.


Analyst


Review

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:	01-07-00
Laboratory Number:	G629	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	12-29-99
Condition:	N/A	Date Analyzed:	01-07-00
		Analysis Requested:	TCLP

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

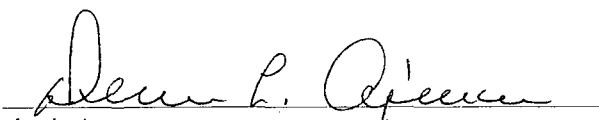
ND - Parameter not detected at the stated detection limit.

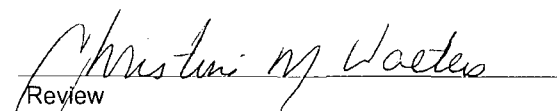
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

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

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

Comments: QA/QC for sample G649.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	01-08-TCM QA/QC	Date Reported:	01-10-00
Laboratory Number:	G649	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	01-08-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.24	1.23	0.8%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	ND	0.499	99.8%	80% - 120%
Barium	0.500	1.24	1.73	99.4%	80% - 120%
Cadmium	0.500	ND	0.498	99.6%	80% - 120%
Chromium	0.500	ND	0.497	99.4%	80% - 120%
Lead	0.500	ND	0.499	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.497	99.4%	80% - 120%
Silver	0.500	ND	0.498	99.6%	80% - 120%

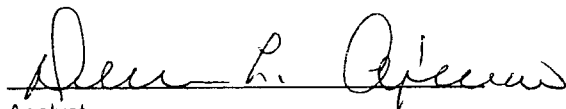
ND - Parameter not detected at the stated detection limit.

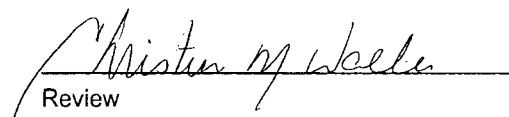
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

Comments: QA/QC for sample G649.


Analyst


Review

7608

[illegible]

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

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

RECEIVED

FFR n 3 2000

Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

0009

1. RCRA Exempt: ☐ Non-Exempt: ☒ <i>M. Kieling</i>	4. Generator <i>Largo Tank Equip.</i>
Verbal Approval Received: <i>1-18-00</i> Yes ☐ No ☐	5. Originating Site <i>Largo Tank yard</i>
2. Management Facility Destination <i>Tierra land Farm</i>	6. Transporter
3. Address of Facility Operator <i>#420 CR 3100 Aztec</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR) <i>Largo Tank yard</i>	<i>5280 Hwy 64 Farmington</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil From Waste oil storage Tank spill



Largo Tank was formerly VIN Tank

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

SIGNATURE: David Bonawitz TITLE: Land Farm Manager DATE: 1-19-00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny Fount TITLE: Geologist DATE: 1/19/00
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 2/4/00



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1500 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 350-6170 Fax (505) 354-5170

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: <i>LARGO TANK & Equipment, Inc</i> <i>5720 U.S. 64</i> <i>FARMINGTON, NM 87401</i>	2. Destination Name: <i>TIERRA ENVIRONMENTAL</i>
3. Originating Site (name): <i>LARGO TANK & Equipment, Inc</i> <i>5720 U.S. 64</i> <i>FARMINGTON, NM 87401</i> Attach list of originating sites on appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste <i>Oil dirt - contaminated by waste oil from storage tank - valve malfunction from freezing; oil dirt removed from tanks. Waste stream process & sources of contaminated soil have not changed since previous tests.</i>	

1. DAVID WASOVER representative for:
(Print Name)

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

☐ EXEMPT oilfield waste

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

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

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

☐ MSDS information

☐ RCRA Hazardous Waste Analysis

☐ Chain of Custody

☐ Other (description):

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

Name (Original Signature): David Wasover

Title: Vice President

Date: 01-17-00



CORE LABORATORIES

CORE LABORATORIES ANALYTICAL REPORT

Job Number: 951418

Prepared For:

ONSITE TECHNOLOGIES LIMITED

DAVE COX*****

657 W. MAPLE

FARMINGTON, NM 87401

Date: 06/05/95


Signature

6/8/95
Date:

Name: Chip Meador

CORE LABORATORIES
1733 NORTH PADRE ISLAND DRIVE
CORPUS CHRISTI, TX 78408

Title: Regional Manager



CORE LABORATORIES

LABORATORY TESTS RESULTS

06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

CLIENT I.D.....: 2-1000
DATE SAMPLED.....: 05/16/95 ✓
TIME SAMPLED.....: 08:00
WORK DESCRIPTION....: 6386-3040

LABORATORY I.D....: 951418-0001
DATE RECEIVED.....: 05/17/95
TIME RECEIVED.....: 12:15
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
TCLP Semivolatiles		*1		EPA SW-846 8270	05/26/95	GEF
1,4-Dichlorobenzene	<10	10	ug/L	EPA SW-846 8270		
2,4-Dinitrotoluene	<10	10	ug/L	EPA SW-846 8270		
Hexachlorobenzene	<10	10	ug/L	EPA SW-846 8270		
Hexachlorobutadiene	<10	10	ug/L	EPA SW-846 8270		
Hexachloroethane	<10	10	ug/L	EPA SW-846 8270		
Nitrobenzene	<10	10	ug/L	EPA SW-846 8270		
Pentachlorophenol	<50	50	ug/L	EPA SW-846 8270		
2,4,5-Trichlorophenol	<10	10	ug/L	EPA SW-846 8270		
2,4,6-Trichlorophenol	<10	10	ug/L	EPA SW-846 8270		
Pyridine	<10	10	ug/L	EPA SW-846 8270		
p,m-Cresol	<10	10	ug/L	EPA SW-846 8270		
o-Cresol	<10	10	ug/L	EPA SW-846 8270		
TCLP Volatiles		*10		EPA SW-846 8260	05/31/95	QP
Benzene	<50	50	ug/L	EPA SW-846 8260		
Carbon tetrachloride	<50	50	ug/L	EPA SW-846 8260		
Chlorobenzene	<50	50	ug/L	EPA SW-846 8260		
Chloroform	<50	50	ug/L	EPA SW-846 8260		
Methyl ethyl ketone	<500	500	ug/L	EPA SW-846 8260		
Trichloroethene	<50	50	ug/L	EPA SW-846 8260		
Vinyl chloride	<40	40	ug/L	EPA SW-846 8260		
1,2-Dichloroethane	<50	50	ug/L	EPA SW-846 8260		
Tetrachloroethene	<50	50	ug/L	EPA SW-846 8260		
1,1-Dichloroethene	<50	50	ug/L	EPA SW-846 8260		
Extraction - TCLP Semivolatiles	Completed			EPA SW-846 3580	05/24/95	WEB ✓
Glass Jar Extraction for Metals	Completed			EPA SW-846 1311	05/22/95	DGP
Glass Jar Extraction-Semivolatiles	Completed			EPA SW-846 1311	05/22/95	DGP ✓
Arsenic (As), extractable TCLP	<0.05	0.05	mg/L	EPA SW-846 6010	05/23/95	JJP
Barium (Ba), extractable TCLP	0.75	0.05	mg/L	EPA SW-846 6010	05/23/95	JJP
Cadmium (Cd), extractable TCLP	<0.05	0.05	mg/L	EPA SW-846 6010	05/23/95	JJP
Chromium (Cr), extractable TCLP	<0.05	0.05	mg/L	EPA SW-846 6010	05/23/95	JJP
Lead (Pb), extractable TCLP	<0.05	0.05	mg/L	EPA SW-846 6010	05/23/95	JJP
Selenium (Se), extractable TCLP	<0.05	0.05	mg/L	EPA SW-846 6010	05/23/95	JJP

1733 NORTH PADRE ISLAND DRIVE
CORPUS CHRISTI, TX 78408
(512) 289-2673



CORE LABORATORIES

LABORATORY TESTS RESULTS 06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

CLIENT I.D.: 2-1000
DATE SAMPLED: 05/16/95
TIME SAMPLED: 08:00
WORK DESCRIPTION: 6386-3040

LABORATORY I.D.: 951418-0001
DATE RECEIVED: 05/17/95
TIME RECEIVED: 12:15
REMARKS:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Silver (Ag), extractable TCLP	<0.05	0.05	mg/L	EPA SW-846 6010	05/23/95	JJP
Flammability Potential	Neg.		+ or -	ASTM D4982-89	05/18/95	JJP
pH, solid/waste	7.9	0.1	pH units	30 TAC 335.505 (3)	05/18/95	DJ
Mercury (Hg), extractable, TCLP	<0.002	0.002	mg/L	EPA SW-846 7470	05/26/95	JJP
Metals Digest on Extracted Sample	Completed			EPA SW-846 3010	05/23/95	EBS
Zero Headspace Extraction-Volatile	Completed			EPA SW-846 1311	05/22/95	DGP

1733 NORTH PADRE ISLAND DRIVE
CORPUS CHRISTI, TX 78408
(512) 289-2673



CORE LABORATORIES

QUALITY ASSURANCE REPORT

06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:pH, solid/waste				DATE/TIME ANALYZED:05/18/95 09:03				QC BATCH NUMBER:982163		
REPORTING LIMIT/DF: 0.1 UNITS:pH units				METHOD REFERENCE :30 TAC 335.505 (3)				TECHNICIAN:DJ		
STANDARD	LCS	386.14.6	7.00			7.00	100			
DUPLICATE	MD	951418-1	7.89	7.91	0					
PARAMETER:Flammability Potential				DATE/TIME ANALYZED:05/18/95 14:10				QC BATCH NUMBER:982175		
REPORTING LIMIT/DF: UNITS:+ or -				METHOD REFERENCE :ASTM D4982-89				TECHNICIAN:JJP		
DUPLICATE	MD	951368-1	Pos.	Pos.	0					
PARAMETER:Arsenic (As), extractable TCLP				DATE/TIME ANALYZED:05/23/95 14:37				QC BATCH NUMBER:982435		
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE : SW-846 6010				TECHNICIAN:JJP		
BLANK	MB	3010	<0.05							
STANDARD	CCV	0519A	5.10			5.00	102			
STANDARD	ICV	Q0495	0.99			1.00	99			
SPIKE	MS	951417-001	1.07					<0.05	1.00	107
DUPLICATE	MD	951417-001	<0.05	<0.05	NC					
PARAMETER:Barium (Ba), extractable TCLP				DATE/TIME ANALYZED:05/23/95 14:37				QC BATCH NUMBER:982436		
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE : SW-846 6010				TECHNICIAN:JJP		
BLANK	MB	3010	<0.05							
STANDARD	CCV	0519A	4.95			5.00	99			
STANDARD	ICV	70495	1.01			1.00	101			
SPIKE	MS	951400-001	2.00					1.08	1.00	92
DUPLICATE	MD	951417-001	1.05	1.05	0					
PARAMETER:Cadmium (Cd), extractable TCLP				DATE/TIME ANALYZED:05/23/95 14:37				QC BATCH NUMBER:982437		
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE : SW-846 6010				TECHNICIAN:JJP		
BLANK	MB	3010	<0.05							
STANDARD	CCV	0519A	5.10			5.00	102			
STANDARD	ICV	Q0495	1.03			1.00	103			
SPIKE	MS	951417-001	0.96					<0.05	1.00	96
DUPLICATE	MD	951417-001	<0.05	<0.05	NC					
PARAMETER:Chromium (Cr), extractable TCLP				DATE/TIME ANALYZED:05/23/95 14:37				QC BATCH NUMBER:982438		
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE : SW-846 6010				TECHNICIAN:JJP		
BLANK	MB	3010	<0.05							
STANDARD	CCV	0519A	5.16			5.00	103			
STANDARD	ICV	Q0495	1.05			1.00	105			
SPIKE	MS	951417-001	1.12					0.16	1.00	96
DUPLICATE	MD	951417-001	0.16	0.17	0.01					

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CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (A-B)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Lead (Pb), extractable TCLP REPORTING LIMIT/DF: 0.05 UNITS:mg/L				DATE/TIME ANALYZED:05/23/95 14:37 METHOD REFERENCE : SW-846 6010				QC BATCH NUMBER:982439 TECHNICIAN:JJP		
BLANK	MB	3010	<0.05							
STANDARD	CCV	0519A	5.21			5.00	104			
STANDARD	ICV	Q0495	1.04			1.00	104			
SPIKE	MS	951417-001	0.91					<0.05	1.00	91
DUPLICATE	MD	951417-001	<0.05	<0.05	NC					
PARAMETER:Selenium (Se), extractable TCLP REPORTING LIMIT/DF: 0.05 UNITS:mg/L				DATE/TIME ANALYZED:05/23/95 14:37 METHOD REFERENCE : SW-846 6010				QC BATCH NUMBER:982440 TECHNICIAN:JJP		
BLANK	MB	3010	<0.05							
STANDARD	CCV	0519A	5.17			5.00	103			
STANDARD	ICV	Q0495	1.00			1.00	100			
SPIKE	MS	951418-001	1.00					<0.05	1.00	100
DUPLICATE	MD	951417-001	<0.05	<0.05	NC					
PARAMETER:Silver (Ag), extractable TCLP REPORTING LIMIT/DF: 0.05 UNITS:mg/L				DATE/TIME ANALYZED:05/23/95 14:37 METHOD REFERENCE : SW-846 6010				QC BATCH NUMBER:982441 TECHNICIAN:JJP		
BLANK	MB	3010	<0.05							
STANDARD	CCV	0519A	5.02			5.00	100			
STANDARD	ICV	70495	1.03			1.00	103			
SPIKE	MS	951417-001	0.93					<0.05	1.00	93
DUPLICATE	MD	951417-001	<0.05	<0.05	NC					
PARAMETER:Mercury (Hg), extractable, TCLP REPORTING LIMIT/DF: 0.002 UNITS:mg/L				DATE/TIME ANALYZED:05/26/95 15:55 METHOD REFERENCE :EPA SW-846 7470				QC BATCH NUMBER:982580 TECHNICIAN:JJP		
BLANK	MB	DI H2O	<0.002							
STANDARD	RS	Bk367 Pg41	0.019			0.020	95			
SPIKE	MS	951367-1	0.050					<0.002	0.050	100
DUPLICATE	MD	951367-1	<0.002	<0.002	NC					

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QUALITY ASSURANCE REPORT 06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP SEMIVOLATILES

DATE ANALYZED: 05/26/95 TIME ANALYZED: 13:49 METHOD: EPA SW-846 8270

QC NUMBER: 982611

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
1,4-Dichlorobenzene	MB		052495	1	<10	10	ug/l
2,4-Dinitrotoluene	MB		052495	1	<10	10	ug/l
Hexachlorobenzene	MB		052495	1	<10	10	ug/l
Hexachlorobutadiene	MB		052495	1	<10	10	ug/l
Hexachloroethane	MB		052495	1	<10	10	ug/l
Nitrobenzene	MB		052495	1	<10	10	ug/l
Pentachlorophenol	MB		052495	1	<50	50	ug/l
2,4,5-Trichlorophenol	MB		052495	1	<10	10	ug/l
2,4,6-Trichlorophenol	MB		052495	1	<10	10	ug/l
Pyridine	MB		052495	1	<10	10	ug/l
Cresols (Total)	MB		052495	1	<30	30	ug/L

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CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP SEMIVOLATILES

DATE ANALYZED: 05/26/95 TIME ANALYZED: 13:49 METHOD: EPA SW-846 8270

QC NUMBER: 982611

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol (Surrogate)	MB	052495-00	1	44	0	200	22	10	ug/l
	BS	052495-00	1	110	0	200	55	10	ug/l
	SS	951418-1	1	130	0	200	65	10	ug/l
	SS	951419-1	1	650	0	2000	32	10	ug/l
	SS	951430-1	1	680	0	2000	34	10	ug/l
	SS	951447-1	1	470	0	2000	24	10	ug/l
Phenol-d6 (Surrogate)	SS	951448-1	1	880	0	2000	44	10	ug/l
	MB	052495-00	1	45	0	200	22	10	ug/l
	BS	052495-00	1	120	0	200	60	10	ug/l
	SS	951418-1	1	150	0	200	75	10	ug/l
	SS	951419-1	1	1100	0	2000	55	10	ug/l
	SS	951430-1	1	940	0	2000	47	10	ug/l
Nitrobenzene-d5 (Surrogate)	SS	951447-1	1	630	0	2000	32	10	ug/l
	SS	951448-1	1	1100	0	2000	55	10	ug/l
	MB	052495-00	1	40	0	100	40	10	ug/l
	BS	052495-00	1	90	0	100	90	10	ug/l
	SS	951418-1	1	80	0	100	80	10	ug/l
	SS	951419-1	1	800	0	1000	80	10	ug/l
2-Fluorobiphenyl (Surrogate)	SS	951430-1	1	600	0	1000	60	10	ug/l
	SS	951447-1	1	320	0	1000	32	10	ug/l
	SS	951448-1	1	700	0	1000	70	10	ug/l
	MB	052495-00	1	30	0	100	30	10	ug/l
	BS	052495-00	1	60	0	100	60	10	ug/l
	SS	951418-1	1	60	0	100	60	10	ug/l
2,4,6-Tribromophenol(Surrogate)	SS	951419-1	1	870	0	1000	87	10	ug/l
	SS	951430-1	1	490	0	1000	49	10	ug/l
	SS	951447-1	1	550	0	1000	55	10	ug/l
	SS	951448-1	1	570	0	1000	57	10	ug/l
	MB	052495-00	1	43	0	200	22	10	ug/l
	BS	052495-00	1	130	0	200	65	10	ug/l
Terphenyl-d14 (Surrogate)	SS	951418-1	1	150	0	200	75	10	ug/l
	SS	951419-1	1	1500	0	2000	75	10	ug/l
	SS	951430-1	1	950	0	2000	48	10	ug/l
	SS	951447-1	1	670	0	2000	34	10	ug/l
	SS	951448-1	1	1200	0	2000	60	10	ug/l
	MB	052495-00	1	40	0	100	40	10	ug/l
1,4-Dichlorobenzene	BS	052495-00	1	80	0	100	80	10	ug/l
	SS	951418-1	1	70	0	100	70	10	ug/l
	SS	951419-1	1	1000	0	1000	100	10	ug/l
	SS	951430-1	1	610	0	1000	61	10	ug/l
	SS	951447-1	1	580	0	1000	58	10	ug/l
	SS	951448-1	1	670	0	1000	67	10	ug/l
	BS	052495-00	1	44	0	250	18	10	ug/l
	MS	951447-1	1	510	0	2500	20	10	ug/l
	MSD	951447-1	1	430	0	2500	17	10	ug/l

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CORE LABORATORIES

QUALITY ASSURANCE REPORT 06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP SEMIVOLATILES

DATE ANALYZED: 05/26/95 TIME ANALYZED: 13:49 METHOD: EPA SW-846 8270

QC NUMBER: 982611

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2,4-Dinitrotoluene	BS	052495-00	1	180	0	250	72	10	ug/l
	MS	951447-1	1	1600	0	2500	64	10	ug/l
	MSD	951447-1	1	1600	0	2500	64	10	ug/l
Hexachlorobenzene	BS	052495-00	1	230	0	250	92	10	ug/l
	MS	951447-1	1	2000	0	2500	80	10	ug/l
	MSD	951447-1	1	1900	0	2500	76	10	ug/l
Hexachlorobutadiene	BS	052495-00	1	23	0	250	9	10	ug/l
	MS	951447-1	1	560	0	2500	22	10	ug/l
	MSD	951447-1	1	450	0	2500	18	10	ug/l
Hexachloroethane	BS	052495-00	1	21	0	250	8	10	ug/l
	MS	951447-1	1	420	0	2500	17	10	ug/l
	MSD	951447-1	1	300	0	2500	12	10	ug/l
Nitrobenzene	BS	052495-00	1	130	0	250	52	10	ug/l
	MS	951447-1	1	1200	0	2500	48	10	ug/l
	MSD	951447-1	1	1200	0	2500	48	10	ug/l
Pentachlorophenol	BS	052495-00	1	390	0	750	52	50	ug/l
	MS	951447-1	1	3100	0	7500	41	50	ug/l
	MSD	951447-1	1	2300	0	7500	31	50	ug/l
2,4,5-Trichlorophenol	BS	052495-00	1	520	0	750	69	10	ug/l
	MS	951447-1	1	3000	0	7500	40	10	ug/l
	MSD	951447-1	1	2500	0	7500	33	10	ug/l
2,4,6-Trichlorophenol	BS	052495-00	1	240	0	250	96	10	ug/l
	MS	951447-1	1	1100	0	2500	44	10	ug/l
	MSD	951447-1	1	910	0	2500	36	10	ug/l
Pyridine	BS	052495-00	1	440	0	500	88	10	ug/l
	MS	951447-1	1	2900	0	5000	58	10	ug/l
	MSD	951447-1	1	2200	0	5000	44	10	ug/l
Cresols (Total)	BS	052495-00	1	520	0	750	69	30	ug/L
	MS	951447-1	1	5200	0	7500	69	30	ug/L
	MSD	951447-1	1	4600	0	7500	61	30	ug/L

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CORE LABORATORIES

QUALITY ASSURANCE REPORT 06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP Volatiles

DATE ANALYZED: 05/31/95 TIME ANALYZED: 11:28 METHOD: EPA SW-846 8260

QC NUMBER: 982639

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Vinyl chloride	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
1,1-Dichloroethene	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
Methyl ethyl ketone	MB		052295	1	<50	50	ug/l
	MB		052295	1	<50	50	ug/l
	MB		052595	1	<50	50	ug/l
	MB		052595	1	<50	50	ug/l
	MB		053095	1	<50	50	ug/l
Chloroform	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
Carbon tetrachloride	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
1,2-Dichloroethane	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
Benzene	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
Trichloroethene	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
Tetrachloroethene	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		052595	1	<5	5	ug/l
	MB		053095	1	<5	5	ug/l
Chlorobenzene	MB		052295	1	<5	5	ug/l
	MB		052295	1	<5	5	ug/l

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CORE LABORATORIES

QUALITY ASSURANCE REPORT

06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP Volatiles

DATE ANALYZED: 05/31/95 TIME ANALYZED: 11:28 METHOD: EPA SW-846 8260

QC NUMBER: 982639

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
	MB	052295	1	<5	5	ug/l
	MB	052595	1	<5	5	ug/l
	MB	052595	1	<5	5	ug/l
	MB	053095	1	<5	5	ug/l

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CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP Volatiles

DATE ANALYZED: 05/31/95 TIME ANALYZED: 11:28 METHOD: EPA SW-846 8260

QC NUMBER: 982639

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Dibromofluoromethane(Surrogate)	CC	342.74.6	1	44	50	88	4	ug/l
Toluene d-8 (Surrogate)	CC	342.74.6	1	49	50	98	4	ug/l
4-Bromofluorobenzene(Surrogate)	CC	342.74.6	1	52	50	104	4	ug/l
Vinyl chloride	CC	342.74.6	1	106	100	106	5	ug/l
1,1-Dichloroethene	CC	342.74.6	1	106	100	106	5	ug/l
Methyl ethyl ketone	CC	342.74.6	1	74	100	74	50	ug/l
Chloroform	CC	342.74.6	1	101	100	101	5	ug/l
Carbon tetrachloride	CC	342.74.6	1	107	100	107	5	ug/l
1,2-Dichloroethane	CC	342.74.6	1	101	100	101	5	ug/l
Benzene	CC	342.74.6	1	103	100	103	5	ug/l
Trichloroethene	CC	342.74.6	1	103	100	103	5	ug/l
Tetrachloroethene	CC	342.74.6	1	122	100	122	5	ug/l
Chlorobenzene	CC	342.74.6	1	115	100	115	5	ug/l

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CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP Volatiles

DATE ANALYZED: 05/31/95 TIME ANALYZED: 11:28 METHOD: EPA SW-846 8260

QC NUMBER: 982639

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Dibromofluoromethane(Surrogate)	MB	052295-00	1	520	0	500	104	4	ug/l
	MB	052295-00	1	510	0	500	102	4	ug/l
	MB	052595-00	1	510	0	500	102	4	ug/l
	MB	052595-00	1	500	0	500	100	4	ug/l
	MB	053095-00	1	470	0	500	94	4	ug/l
	SS	951400-1	1	500	0	500	100	4	ug/l
	SS	951405-1	1	25200	0	25000	101	4	ug/l
	SS	951418-1	1	440	0	500	88	4	ug/l
	SS	951419-1	1	236000	0	250000	94	4	ug/l
	SS	951430-1	1	490	0	500	98	4	ug/l
	SS	951447-1	1	12500	0	12500	100	4	ug/l
	SS	951448-1	1	490	0	500	98	4	ug/l
	SS	951470-1	1	460	0	500	92	4	ug/l
	SS	951471-1	1	24600	0	25000	98	4	ug/l
	SS	951481-1	1	470	0	500	94	4	ug/l
	SS	951484-1	1	480	0	500	96	4	ug/l
	SS	951485-1	1	2420	0	2500	97	4	ug/l
	SS	951487-1	1	2270	0	2500	91	4	ug/l
	SS	951488-1	1	2370	0	2500	95	4	ug/l
	SS	951500-1	1	460	0	500	92	4	ug/l
Toluene d-8 (Surrogate)	MB	052295-00	1	460	0	500	92	4	ug/l
	MB	052295-00	1	460	0	500	92	4	ug/l
	MB	052595-00	1	450	0	500	90	4	ug/l
	MB	052595-00	1	460	0	500	92	4	ug/l
	MB	053095-00	1	470	0	500	94	4	ug/l
	SS	951400-1	1	460	0	500	92	4	ug/l
	SS	951405-1	1	22300	0	25000	89	4	ug/l
	SS	951418-1	1	450	0	500	90	4	ug/l
	SS	951419-1	1	222000	0	250000	89	4	ug/l
	SS	951430-1	1	460	0	500	92	4	ug/l
	SS	951432-1	1	11300	0	12500	90	4	ug/l
	SS	951448-1	1	460	0	500	92	4	ug/l
	SS	951470-1	1	460	0	500	92	4	ug/l
	SS	951471-1	1	24500	0	25000	98	4	ug/l
	SS	951481-1	1	440	0	500	88	4	ug/l
	SS	951484-1	1	440	0	500	88	4	ug/l
	SS	951485-1	1	2320	0	2500	93	4	ug/l
	SS	951487-1	1	2270	0	2500	91	4	ug/l
	SS	951488-1	1	2440	0	2500	98	4	ug/l
	SS	951500-1	1	470	0	500	94	4	ug/l
4-Bromofluorobenzene(Surrogate)	MB	052295-00	1	480	0	500	96	4	ug/l
	MB	052295-00	1	490	0	500	98	4	ug/l
	MB	052595-00	1	450	0	500	90	4	ug/l
	MB	052595-00	1	440	0	500	88	4	ug/l
	MB	053095-00	1	450	0	500	90	4	ug/l

1733 NORTH PADRE ISLAND DRIVE
CORPUS CHRISTI, TX 78408
(512) 289-2673



CORE LABORATORIES

QUALITY ASSURANCE REPORT

06/05/95

JOB NUMBER: 951418

CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX*****

TCLP Volatiles

DATE ANALYZED: 05/31/95 TIME ANALYZED: 11:28 METHOD: EPA SW-846 8260

QC NUMBER: 982639

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
	SS	951400-1	1	500	0	500	100	4	ug/l
	SS	951405-1	1	24100	0	25000	96	4	ug/l
	SS	951418-1	1	450	0	500	90	4	ug/l
	SS	951419-1	1	220000	0	250000	88	4	ug/l
	SS	951430-1	1	360	0	500	72	4	ug/l
	SS	951447-1	1	12200	0	12500	98	4	ug/l
	SS	951448-1	1	450	0	500	90	4	ug/l
	SS	951470-1	1	440	0	500	88	4	ug/l
	SS	951471-1	1	21800	0	25000	87	4	ug/l
	SS	951481-1	1	440	0	500	88	4	ug/l
	SS	951484-1	1	440	0	500	88	4	ug/l
	SS	951485-1	1	2270	0	2500	91	4	ug/l
	SS	951487-1	1	2290	0	2500	92	4	ug/l
	SS	951488-1	1	2170	0	2500	87	4	ug/l
	SS	951500-1	1	470	0	500	94	4	ug/l
Vinyl chloride	MS	951481-1	1	670	0	1000	67	5	ug/l
	MSD	951481-1	1	640	0	1000	64	5	ug/l
1,1-Dichloroethene	MS	951481-1	1	1000	0	1000	100	5	ug/l
	MSD	951481-1	1	960	0	1000	96	5	ug/l
Methyl ethyl ketone	MS	951481-1	1	980	0	1000	98	50	ug/l
	MSD	951481-1	1	850	0	1000	85	50	ug/l
Chloroform	MS	951481-1	1	970	0	1000	97	5	ug/l
	MSD	951481-1	1	930	0	1000	93	5	ug/l
Carbon tetrachloride	MS	951481-1	1	1060	0	1000	106	5	ug/l
	MSD	951481-1	1	990	0	1000	99	5	ug/l
1,2-Dichloroethane	MS	951481-1	1	950	0	1000	95	5	ug/l
	MSD	951481-1	1	920	0	1000	92	5	ug/l
Benzene	MS	951481-1	1	890	0	1000	89	5	ug/l
	MSD	951481-1	1	840	0	1000	84	5	ug/l
Trichloroethene	MS	951481-1	1	830	0	1000	83	5	ug/l
	MSD	951481-1	1	790	0	1000	79	5	ug/l
Tetrachloroethene	MS	951481-1	1	2170	970	1000	120	5	ug/l
	MSD	951481-1	1	1960	970	1000	99	5	ug/l
Chlorobenzene	MS	951481-1	1	1020	0	1000	102	5	ug/l
	MSD	951481-1	1	910	0	1000	91	5	ug/l

1733 NORTH PADRE ISLAND DRIVE
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CORE LABORATORIES

QUALITY ASSURANCE FOOTER

Cited Methods are obtained from the following documents :

EPA 600/2-79-020, Methods for the Analysis of Water and Wastes, March 1983.
USEPA SW-846 3rd. Edition, November 1990 and July 1992 Update, Test Methods for Evaluating Solid Waste.
EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils.
Federal Register, July 1, 1992 (40 CFR Part 136).
Standard Methods for the Examination of Water and Wastewater, 18th Ed. APHA, AWWA, WPCF.

Quality control acceptance criteria are method dependent.

All data reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample.

NC = Not Calculated due to value at or below detection limit.

NOTE: Data in QA report may differ from final results due to digestion and/or dilution of sample into analytical range.

The "TIME ANALYZED" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "DATE ANALYZED" is the actual date of analysis.

The data in this report are within the limits of uncertainty specified in the referenced method unless otherwise indicated.

SUBCONTRACTED LABORATORY LOCATIONS

For analyses performed by a subcontract laboratory, an "***" and the designated laboratory code is indicated in the "TECHN" column of the laboratory test results report.

Core Laboratories :

Anaheim	*AN	Lake Charles	*LC
Aurora	*AU	Long Beach	*LB
Casper	*CA	Other Laboratories	*XX
Houston	*HP		

QUALITY ASSURANCE REPORT CODES

BLANKS*

MB = Method Blank
RB = Reagent Blank
SB = Storage Blank
ICB = Initial Calib. Blank
CCB = Continuing Calib. Blank

REFERENCE STANDARDS

RS = Reference Standard
CC = Continuing Calib.
LCS = Laboratory Control Std.
ICV = Initial Calib. Verification
CCV = Cont. Calib. Verification

SPIKES AND DUPLICATES

MS = Matrix Spike, BS = Blank Spike
SS = Surrogate Spike, MD = Matrix Dup.
PDS = Post Digested Spike
MSD = Matrix Spike Duplicate
PDD = Post Digested Duplicate

*In the event that several different method blanks are analyzed, the blank type will be designated by the preparation method, i.e., ZHE, TCLP, 3010, 3050, etc.

1733 NORTH PADRE ISLAND DRIVE
CORPUS CHRISTI, TX 78408
(512) 289-2673

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

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

Form C-138
Originated 3/8/93

RECEIVED

FEB 03 2000

Environmental Bureau
Oil Conservation Division

Submit Original
Plus 1 Copy
to appropriate
District Office

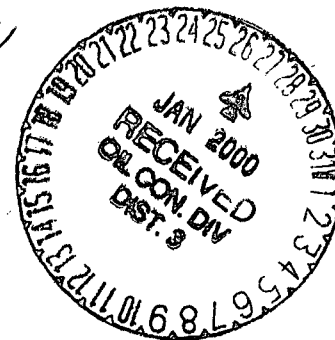
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

0005

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Compressor Systems Inc.</u>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <u>Same</u>
2. Management Facility Destination <u>Tierra Land Farm</u>	6. Transporter <u>Riley</u>
3. Address of Facility Operator <u>#420 CR3100 Aztec</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR) <u>Farmington</u>	<u>New Mexico</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Oil and Water Mixed From New Oil Spill



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

SIGNATURE: David Boruff TITLE: Land Farm Manager DATE: 1-20-00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny G. Fount TITLE: Geologist DATE: 1/31/00
APPROVED BY: Martinez J. Kuby TITLE: Environmental Geologist DATE: 2/4/00

FROM :

FAX NO. :

Jan. 19 2000 02:35PM P2



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: COMPRESSOR SYSTEMS INC 5995 US Hwy 64 Farmington NM 87401	2. Destination Name: TIERRA ENVIRONMENTAL 420 CR 3100 Aztec NM 87410
3. Originating Site (name): NEW OIL BULK TANK #11 CR 5911 Farmington	
4. Source and Description of Waste CHEVRON GAS ENGINE OIL FROM CSI See ATTACHED MSDS (Chevron Type 7)	

Attach list of originating sites as appropriate

1. DAVID ALGEO

(Print Name)

representative for:

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

☒ EXEMPT oilfield waste

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

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

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

☐ MSDS Information
☐ RCRA Hazardous Waste Analysis
☐ Chain of Custody

☐ Other (description):

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

Name (Original Signature):

Title:

Date:

ops mgr CSI
1-20-2000



Material Safety Data Sheet

Page 1 of 7

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Gas Engine Oil HDAX Low Ash SAE 30

PRODUCT NUMBER(S): CPS232327 CPS238118

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 HDAX Low Ash SAE 30

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
HYDROTREATED DIST., HVY PARA			
Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC			
CAS64742547	90.0%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

ADDITIVES INCLUDING THE FOLLOWING
10.0%

ZINC ALKARYL DITHIOPHOSPHATE
Chemical Name: ZINC ALKARYL DITHIOPHOSPHATE
CAS54261675 < 1.5%

Revision Number: 5 Revision Date: 01/11/95 MSDS Number: 004210
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
and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

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 A Categories	() - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS**EYE:**

This substance is not expected to cause prolonged or significant eye irritation.

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.

INGESTION:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed.

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.

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

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

CHEVRON Gas Engine Oil HDAX Low Ash SAE 30

Page 3 of 7

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) 410F (210C) Min.

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam, Water Fog

NEPA 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, including self-contained breathing apparatus.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous.

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:**

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

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:

Dark amber liquid.

pH: NDA

VAPOR PRESSURE: NA

VAPOR DENSITY:

(AIR=1): NA

BOILING POINT: NA

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: 11.0 cSt @ 100C (Min.)

PERCENT VOLATILE

(VOL): NA

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.

11. TOXICOLOGICAL INFORMATION

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

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 on the components.

ACUTE INHALATION EFFECTS:

No product toxicology data available. The hazard evaluation was based on data on the components.

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).

This product contains zinc alkaryl dithiophosphate which is similar in toxicity to zinc alkyl dithiophosphate (ZDDP). Several (ZDDPs) have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

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

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

CHEVRON Gas Engine Oil HDAX Low Ash SAE 30

Page 6 of 7

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.

ZINC ALKARYL DITHIOPHOSPHATE

is found on lists: 01,11.

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

is found on lists: 14,15,17,

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

OTHER INFORMATION

RATINGS: Health 1; Flammability 1; Reactivity 0;
t-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are
ned using the guidelines or published evaluations prepared by the
nal Fire Protection Association (NFPA) or the National Paint and
ng Association (for HMIS ratings).

ON STATEMENT:

s have been made throughout this Material Safety Data Sheet.
read the entire document.

ve information is based on the data of which we are aware and is
d to be correct as of the date hereof. Since this information may
ied under conditions beyond our control and with which we may be
iar and since data made available subsequent to the date hereof may
modification of the information, we do not assume any responsibil-
the results of its use. This information is furnished upon
on that the person receiving it shall make his own determination
suitability of the material for his particular purpose.

ve for:

y certify that,
Agency's July,

y characteristic

ove.

(NORM) pursuant

umber: 5 Revision Date: 01/11/95 MSDS Number: 004210
NDA - No Data Available NA - Not Applicable

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

Env. JN



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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Cenoco</u>
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site <u>Wingate Plant</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>TBA</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u># 68 El Paso Circle Group, NM 87301</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

petroleum hydrocarbon contaminated soil generated during clean up around vapor recovery unit.

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 01-10-00
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fount TITLE: Geologist DATE: 1/18/00
APPROVED BY: Martinez J. R. TITLE: Environmental Geologist DATE: 1/19/00



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(800) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Conoco Inc. Wingate Plant P.O. Box 119 Rehoboth, NM 87322-0119	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name): Wingate Plant #68 El Paso Circle Gallup, NM 87301 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): (Soils surrounding the Vapor Recovery Unit)
4. Source and Description of Waste Contaminated Soils from around the Vapor Recovery Unit.	

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

☐ EXEMPT oilfield waste

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

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

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

☐ MSDS Information
☒ RCRA Hazardous Waste Analysis
☐ Chain of Custody

☐ Other (description):

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

Name (Original Signature): Joyce Woodfin

Title: Environmental Consultant

Date: 12-21-99



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

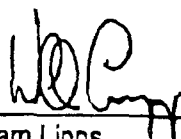
Client: Conoco, Inc. Gallup
Project: Gallup, NM
Sample ID: VRU SOIL
Lab ID: 0399W05512
Matrix: Soil
Condition: Intact

Date Reported: 11/11/99
Date Sampled: 10/30/99
Date Received: 11/03/99
Date Analyzed: 11/10/99

Parameter	Analytical Result	PQL	MCL	Units
TCLP METALS - EPA METHOD 1311				
Arsenic	<0.005	0.005	5.0	mg/L
Barium	1.52	0.01	100.0	mg/L
Cadmium	<0.004	0.004	1.0	mg/L
Chromium	<0.01	0.01	5.0	mg/L
Lead	<0.01	0.01	5.0	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	0.06	0.005	1.0	mg/L
Silver	<0.01	0.01	5.0	mg/L

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:


William Lipps



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

Client: Conoco, Inc. Gallup
Project: Gallup, NM
Sample ID: VRU
Lab ID: 0399W05620
Matrix: Soil
Condition: Intact

Date Reported: 11/17/99
Date Sampled: 11/11/99
Date Received: 11/12/99
Date Analyzed: 11/16/99

Parameter	Analytical Result	PQL	Units
-----------	-------------------	-----	-------

BTEX - Method 8021B

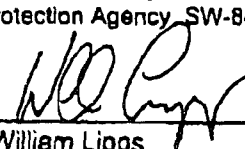
Benzene	13	1	µg/L
Toluene	49	1	µg/L
Ethylbenzene	20	1	µg/L
Xylenes (total)	88	3	µg/L

Quality Control - Surrogate Recovery	%	QC Limits
--------------------------------------	---	-----------

4-Bromofluorobenzene(SUR-8020)	102	70 - 130
a,a,a-Trifluorotoluene(SUR-602)	127	70 - 130

Reference: Method 8021, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume IB, December 1987.

Reviewed By:


William Lipps

Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED

DEC 17 1999

Environmental Bureau
Oil Conservation Division

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒		OIL CON. DIV. DIST. 3		Generator <u>Weather Ford</u>	
Verbal Approval Received: Yes ☐ No ☐				5. Originating Site <u>5432 Hwy 64 Farmington, NM</u>	
2. Management Facility Destination <u>Tierra Landfarm</u>				6. Transporter <u>Inland</u>	
3. Address of Facility Operator <u>420 CR 3100 Aztec, NM</u>				8. State <u>N. M.</u>	
7. Location of Material (Street Address or ULSTR) <u>5432 Hwy 64</u>				<u>Farmington, NM</u>	
9. <u>Circle One:</u>					
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.					
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.					

BRIEF DESCRIPTION OF MATERIAL:

Soil Contaminated with hydrocarbon products e.g. diesel, hydraulic oil used during service operations at the facility. The facility was used to service and store oil field rental equipment and tools.

Estimated Volume 700 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Phillip C. Nobis TITLE: President DATE: 12/6/88
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Phillip C. Nobis TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Zant TITLE: Geologist DATE: 12/6/99

APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 12/17/99



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
GOVERNOR

Oil Conservation Division
Albuquerque District Office
1600 Rio Grande Road
Albuquerque, NM 87106
(505) 827-0170 Fax (505) 827-0171

JENNIFER A. SALSBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Weatherford International Inc. 515 Post Oak Blvd. Suite 600 Houston, TX 77027	2. Destination Name: TIERRA Environmental Company Inc. 420 C.R. 3100 Aztec, NM 87401
3. Originating Site Name: Weatherford Rental Yard	Location of the Waste (Street address &/or ULSR): 5432 US Highway 64 Farmington, NM 87401
4. Source and Description of Waste The waste consists of approximately 700 cubic yards of hydrocarbon impacted soil accumulated during yard clean up operations at the facility. Potential hydrocarbon sources are diesel fuel and hydraulic oil used during service operations at the facility. The facility was used to service and store oilfield rental equipment and tools.	

I, Roger Cove representative for:
(Print Name)
Weatherford Rental do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1980, regulatory determination, the above described waste is: (Check appropriate classification)

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

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

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

☒ MSDS Information
☒ RCRA Hazardous Waste Analysis
☒ Chain of Custody

☐ Other (description):

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

Name (Original Signature): Roger Cove
Title: Location Supervisor
Date: 12-6-99



**WILSON
ENVIRONMENTAL
MANAGEMENT, INC.**

FAX TRANSMITTAL SHEET

Date 12-6-99

To: Phil Nobis
TIERRA

Fax No. (505) 334-9024

From: C.B. Jacobson
WEMI

Fax No. (801) 377-9710

Total Number of Pages (Including Transmittal Sheet): 4 15

Subject: Certification of Waste Status for Weatherford

Notes:

I have faxed the waste profile analyses for the two stockpiles at the Weatherford Facility located at 5432 US Highway 64 Farmington, NM. The waste is non-exempt oilfield generated hydrocarbon impacted soils.

As discussed on Friday we would like to begin moving the soil on Monday December the 13th. If there are any questions about the submittals please contact me at (801) 377-4532.

Thank You,

CB Jacobson



AMERICAN
WEST
ANALYTICAL
LABORATORIES

INORGANIC ANALYSIS REPORT

Client: Wilson Environmental
Date Sampled: November 10, 1999
Project: Weatherford-Hyw 64 Farmington

Contact: C. B. Jacobson
Date Received: November 12, 199

Lab Sample ID:
L39118-09B

Field Sample ID:
Stockpile -1

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Flashpoint	°F	11/16/99	1010	200	>200
pH	pH units	11/15/99	9045B	0	7.10
Reactive Cyanide	mg/Kg (ppm)	11/17/99	4500CNE	5.0	<5.0
Reactive Sulfide	mg/kg	11/18/99	4500S2E	50	<50

Released by:

Laboratory Supervisor

Report Date:

November 23, 1999

Page 1 of 1

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AMERICAN
WEST
ANALYTICAL
LABORATORIESClient: Wilson Environmental
Date Sampled: November 10, 1999
Project: Weatherford-Hyw 64 FarmingtonContact: C. B. Jacobson
Date Received: November 12, 1999Lab Sample ID:
L39118-09AField Sample ID:
Stockpile -1663 West 3600 South
Salt Lake City, Utah
84115

TCLP METALS Method 1311

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/16/99	6010B	2.0	<2.0
Barium	mg/L	11/16/99	6010B	0.050	0.15
Cadmium	mg/L	11/16/99	6010B	0.030	<0.030
Chromium	mg/L	11/16/99	6010B	0.050	<0.050
Lead	mg/L	11/16/99	6010B	0.10	<0.10
Mercury	mg/L	11/18/99	7470A	0.050	<0.050
Selenium	mg/L	11/16/99	6010B	0.50	<0.50
Silver	mg/L	11/16/99	6010B	0.10	<0.10

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

Released by:

Laboratory Supervisor

Report Date:

November 18, 1999

Page 1 of 1

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BLANK SUMMARY REPORT

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Client: Wilson Environmental
Lab Set ID: L39118
Project: Weatherford-Hyw 64 Farmington

Analysis Requested: Purge & Trap by GC/MS SW846 #8260A/5030A

Method Blank ID: L39118-MB

Analysis Date: November 22, 1999

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

Analytical Results

F&D VOLATILES

Units: mg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	0.2	<0.20
Benzene	0.04	<0.040
2-Butanone	0.2	<0.20
Carbendisulfide	0.04	<0.040
Carbon tetrachloride	0.04	<0.040
Chloroform	0.04	<0.040
Cyclohexanone	2	<2.0
1,2-Dichlorobenzene	0.04	<0.040
1,4-Dichlorobenzene	0.04	<0.040
1,2-Dichloroethane	0.04	<0.040
1,1-Dichloroethene	0.04	<0.040
Ethyl acetate	0.1	<0.10
Ethyl ether	0.1	<0.10
Ethylbenzene	0.04	<0.040
Isobutanol	4	<4.0
Methylene chloride	0.04	<0.040
4-Methyl-2-pentanone	0.1	<0.10
2-Nitropropane	0.2	<0.20
Tetrachloroethene	0.04	<0.040
Toluene	0.04	<0.040
1,1,1-Trichloroethane	0.04	<0.040
1,1,2-Trichloroethane	0.04	<0.040
Trichloroethene	0.04	<0.040
Trichlorofluoromethane	0.04	<0.040
Vinyl chloride	0.02	<0.020
o-Xylene	0.04	<0.040
m & p Xylene	0.04	<0.040

Released by:

Solt

Laboratory Supervisor

Report Date: November 29, 1999

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AMERICAN
WEST
ANALYTICAL
LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

ORGANIC ANALYSIS REPORT

Client: Wilson Environmental
Collected: November 10, 1999
Received: November 12, 1999

Contact: C. B. Jacobson
Analyzed: November 22, 1999

Analysis Requested: Purge & Trap by GC/MS SW846 #8260A/5030A

Lab Sample ID: L39118-09A

Field Sample ID: Stockpile -1

Site ID: Weatherford-Hyw 64 Farmington

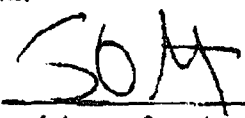
Analytical Results

F&D VOLATILES

Units = mg/L

Compound	Reporting Limit	Amount Detected
Acetone	0.20	< 0.20
Benzene	0.040	< 0.040
2-Butanone	0.20	< 0.20
Carbondisulfide	0.040	< 0.040
Carbon tetrachloride	0.040	< 0.040
Chloroform	0.040	< 0.040
Cyclohexanone	2.0	< 2.0
1,2-Dichlorobenzene	0.040	< 0.040
1,4-Dichlorobenzene	0.040	< 0.040
1,2-Dichloroethane	0.040	< 0.040
1,1-Dichloroethene	0.040	< 0.040
Ethyl acetate	0.10	< 0.10
Ethyl ether	0.10	< 0.10
Ethylbenzene	0.040	< 0.040
Isobutanol	4.0	< 4.0
Methylene chloride	0.040	< 0.040
4-Methyl-2-pentanone	0.10	< 0.10
2-Nitropropane	0.20	< 0.20
Tetrachloroethene	0.040	< 0.040
Toluene	0.040	< 0.040
1,1,1-Trichloroethane	0.040	< 0.040
1,1,2-Trichloroethane	0.040	< 0.040
Trichloroethene	0.040	< 0.040
Trichlorofluoromethane	0.040	< 0.040
Vinyl chloride	0.020	< 0.020
o-Xylene	0.040	< 0.040
m & p Xylene	0.040	< 0.040

Released by:


Laboratory Supervisor

Report Date: November 29, 1999

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LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

ORGANIC ANALYSIS REPORT

Client: Wilson Environmental
Date Sampled: November 10, 1999
Lab Sample ID.: L39118

Contact: C.B. Jacobson
Date Received: November 12, 1999

Analysis Requested:
TCLP Semivolatile
Organic Compounds

Method Ref. Number:
EPA Prep Method 1311
EPA SW-846 #8270 B/3510 A
(Extraction/Direct Injection - GC/MS)

Date TCLP:
November 14, 1999

Date Extracted:
November 15, 1999

Lab Sample ID.:
L39118-9

Field Sample ID.:
Weatherford-Hwy 64 Farmington
Stockpile-1

Date Analyzed:
November 21, 1999

Analytical Results RCRA LISTED NON-PURGABLE CONSTITUENTS

Units = mg/L (ppm)

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

"D Series" Compound:	"D Series" Listing(s)	Reporting Limit:	Amount Detected:
m & p-Cresol	D024	0.05	< 0.05
o-Cresol	D023	0.05	< 0.05
2,4-Dinitrotoluene	D030	0.05	< 0.05
Hexachlorobenzene	D032	0.05	< 0.05
Hexachloro-1,3-butadiene	D033	0.05	< 0.05
Hexachloroethane	D034	0.05	< 0.05
Nitrobenzene	D036	0.05	< 0.05
Pentachlorophenol	D037	0.25	< 0.25
Pyridine	D038	0.25	< 0.25
2,4,5-Trichlorophenol	D041	0.05	< 0.05
2,4,6-Trichlorophenol	D042	0.05	< 0.05

Released by:


Laboratory Supervisor

TCLP Semi D List Master

Report Date 11/23/99

1 of 1

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AMERICAN
WEST
ANALYTICAL
LABORATORIES

ORGANIC ANALYSIS REPORT

Client: Wilson Environmental
Lab Sample ID.: L39118

Contact: C.B. Jacobson

Analysis Requested:
TCLP Semivolatile
Organic Compounds

Method Ref. Number:
EPA Prep Method 1311
EPA SW-846 #8270 B/3510 A
(Extraction/Direct Injection - GC/MS)

Date TCLP:
November 14, 1999

Date Extracted:
November 15, 1999

463 West 3600 South
Salt Lake City, Utah
84115

Lab Sample ID.:
L39118-Method Blank

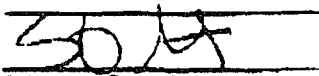
Date Analyzed:
November 21, 1999

Analytical Results RCRA LISTED NON-PURGABLE CONSTITUENTS Units = mg/L (ppm)

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

"D Series" Compound:	"D Series" Listing(s)	Reporting Limit	Amount Detected:
m & p-Cresol	D024	0.05	< 0.05
o-Cresol	D023	0.05	< 0.05
2,4-Dinitrotoluene	D030	0.05	< 0.05
Hexachlorobenzene	D032	0.05	< 0.05
Hexachloro-1,3-butadiene	D033	0.05	< 0.05
Hexachloroethane	D034	0.05	< 0.05
Nitrobenzene	D036	0.05	< 0.05
Pentachlorophenol	D037	0.25	< 0.25
Pyridine	D038	0.25	< 0.25
2,4,5-Trichlorophenol	D041	0.05	< 0.05
2,4,6-Trichlorophenol	D042	0.05	< 0.05

Released by:


Laboratory Supervisor

TCLP Semi D List Master

Report Date 11/23/99

1 of 1

Client Wilson Invi. M'ngs. & Co.Address 327 W 1340 SCity Provo State UT Zip 84601Phone/Fax (801) 377-4532 / 377-9710Contact CB JacobsonProject Name Waterford - Hwy 64 FarmingtonProject Number/P.O.# WEMHOU 99-016

Lab ID No. (Lab Only) Sample ID

Ex-5-Wall Composite

Ex-5-Floor Composite

Ex-6-Composite

Ex-10-Composite

Ex-11-Composite

Ex-13-Composite

BH-9-B

BH-7-B

Stockpile -1

Relinquished By: Signature

PRINT NAME

Received By: Signature

PRINT NAME

Relinquished By: Signature

PRINT NAME

Received By: Signature

PRINT NAME

Date/Time

Date/Time

Date/Time

Date/Time

Special Instructions:

Please Call and Fax Results
to LAB 801-377-4532 / 9710

Bill Wilson in Houston,

CHAIN OF
CUSTODYLab Sample Delivered by _____
Page _____ of _____

Circle One:

TAT I II III S

LEVEL of QC I II III IV

(801) 263-8686

Fax (801) 263-8687

WEST
ANALYTICAL
LABORATORIES
463 West 3600 South
Salt Lake City, Utah
84115

A

LAB ID No. (Lab Only)	Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	8015/8021 TPN-6E+YN	TLIP ALRA Metals	VOX D-57 8260A	TLIP D-57 8260A	Corros-Resist-Test	COMMENTS	LABORATORY USE ONLY
	Ex-5-Wall Composite	11-11-99 9:10	S	3	✓	✓	✓	✓	✓		1 Shipped or hand delivered Notes:
	Ex-5-Floor Composite	11-11-99 9:15	S	3	✓	✓	✓	✓	✓		2 Ambient or Chilled Notes:
	Ex-6-Composite	11-11-99 10:45	S	3	✓	✓	✓	✓	✓		3 Temperature
	Ex-10-Composite	11-11-99 10:5	S	3	✓	✓	✓	✓	✓		4 Received Broken/Leaking (Improperly Sealed) Notes:
	Ex-11-Composite	11-11-99 11:15	S	3	✓	✓	✓	✓	✓		5 Properly Preserved Notes:
	Ex-13-Composite	11-11-99 9:45	S	3	✓	✓	✓	✓	✓		6 Received Within Holding Times Notes:
	BH-9-B	11-10-99 11:30	S	2	✓	✓	✓	✓	✓		COC Tape Was:
	BH-7-B	11-10-99 1:20	S	2	✓	✓	✓	✓	✓		1 Present on Outer Package Y N NA
	Stockpile -1	11-10-99 3:50	S	4	✓	✓	✓	✓	✓		2 Unbroken on Outer Package Y N NA
											3 Present on Sample Y N NA
											4 Unbroken on Sample Y N NA
											Discrepancies Between Sample Labels and COC Record? Y N Notes:



AMERICAN
WEST
ANALYTICAL
LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

INORGANIC ANALYSIS REPORT

Client: Wilson Environmental
Date Sampled: November 20, 1999

Contact: C.B. Jacobson
Date Received: November 22, 1999

Project: Weatherford Farmington 64/WEMHOU 99-0

Lab Sample ID:
L39217-05B

Field Sample ID:
Stockpile #2

<u>Analytical Results</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Flashpoint	°F	11/29/99	1010	200	>200
pH	pH units	11/23/99	9045B	0	6.80
Reactive Cyanide	mg/kg	12/2/99	4500CNE	5.0	< 5.0
Reactive Sulfide	mg/kg	11/30/99	4500S2E	50	< 50

Released by:

Laboratory Supervisor

Report Date:

December 3, 1999

Page 1 of 1



AMERICAN
WEST
ANALYTICAL
LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687

BLANK SUMMARY REPORT

Client: Wilson Environmental
Lab Set ID: L39217
Project: Weatherford Farmington 64/WEMHOU 99-016

Analysis Requested: Semi Volatiles by SW 8270B

Method Blank ID: MBLK

Analysis Date: November 27, 1999

Analytical Results

Semi Volatile Organics by GC/MS

Units: mg/L

Compound

Reporting
Limit

Amount
Detected

3 & 4-Methylphenol

2

< 2.0

2-Methylphenol

2

< 2.0

Cyclohexanone

0.1

< 0.10

2,4-Dinitrotoluene

0.1

< 0.10

2-Ethoxy Ethanol

100

< 100

Hexachlorobenzene

0.1

< 0.10

Hexachlorobutadiene

0.1

< 0.10

Hexachloroethane

0.1

< 0.10

Nitrobenzene

0.5

< 0.50

Pyridine

1

< 1.0

Pentachlorophenol

50

< 50

2,4,6-Trichlorophenol

50

< 50

2,4,5-Trichlorophenol

0.1

< 0.10

Released by:

Laboratory Supervisor

Report Date: November 30, 1999



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Fax (801) 263-8687

ORGANIC ANALYSIS REPORT

Client: Wilson Environmental
Collected: November 20, 1999
Received: November 22, 1999

Contact: C.B. Jacobson
Analyzed: November 27, 1999
Extracted: November 24, 1999

Analysis Requested: Semi Volatiles by SW 8270B

Lab Sample ID: L39217-05A

Field Sample ID: **Stockpile #2**

Site ID: Weatherford Farmington 64/WEMHOU 99-016

Analytical Results

Semi Volatile Organics by GC/MS

Units = mg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
3 & 4-Methylphenol	2.0	< 2.0
2-Methylphenol	2.0	< 2.0
Cyclohexanone	0.10	< 0.10
2,4-Dinitrotoluene	0.10	< 0.10
2-Ethoxy Ethanol	100	< 100
Hexachlorobenzene	0.10	< 0.10
Hexachlorobutadiene	0.10	< 0.10
Hexachloroethane	0.10	< 0.10
Nitrobenzene	0.50	< 0.50
Pyridine	1.0	< 1.0
Pentachlorophenol	50	< 50
2,4,6-Trichlorophenol	50	< 50
2,4,5-Trichlorophenol	0.10	< 0.10

Released by:

Laboratory Supervisor

Report Date: November 30, 1999



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463 West 3600 South
Salt Lake City, Utah
84115

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Fax (801) 263-8687

ORGANIC ANALYSIS REPORT

Client: Wilson Environmental
Collected: November 20, 1999
Received: November 22, 1999

Contact: C.B. Jacobson
Analyzed: November 30, 1999

Analysis Requested: Purge & Trap by GC/MS SW846 #8260A/5030A

Lab Sample ID: L39217-05A

Field Sample ID: **Stockpile #2**

Site ID: Weatherford Farmington 64/WEMHOU 99-016

Analytical Results

F&D VOLATILES

Units = mg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Amount Detected</u>
Acetone	0.20	< 0.20
Benzene	0.040	< 0.040
2-Butanone	0.20	< 0.20
Carbondisulfide	0.040	< 0.040
Carbon tetrachloride	0.040	< 0.040
Chloroform	0.040	< 0.040
Cyclohexanone	2.0	< 2.0
1,2-Dichlorobenzene	0.040	< 0.040
1,4-Dichlorobenzene	0.040	< 0.040
1,2-Dichloroethane	0.040	< 0.040
1,1-Dichloroethene	0.040	< 0.040
Ethyl acetate	0.10	< 0.10
Ethyl ether	0.10	< 0.10
Ethylbenzene	0.040	< 0.040
Isobutanol	4.0	< 4.0
Methylene chloride	0.040	< 0.040
4-Methyl-2-pentanone	0.10	< 0.10
2-Nitropropane	0.20	< 0.20
Tetrachloroethene	0.040	< 0.040
Toluene	0.040	< 0.040
1,1,1-Trichloroethane	0.040	< 0.040
1,1,2-Trichloroethane	0.040	< 0.040
Trichloroethene	0.040	< 0.040
Trichlorofluoromethane	0.040	< 0.040
Vinyl chloride	0.020	< 0.020
o-Xylene	0.040	< 0.040
m & p Xylene	0.040	< 0.040

Released by:


Laboratory Supervisor

Report Date:

December 1, 1999



AMERICAN
WEST
ANALYTICAL
LABORATORIES

INORGANIC ANALYSIS REPORT

Client: Wilson Environmental

Contact: C.B. Jacobson

Date Sampled: November 20, 1999

Date Received: November 22, 1999

Project: Weatherford Farmington 64/WEMHOU 99-0

Lab Sample ID:

Field Sample ID:

L39217-05A

Stockpile #2

463 West 3600 South
Salt Lake City, Utah
84115

TCLP METALS Method 1311

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Amount Detected
Arsenic	mg/L	11/24/99	6010B	2.0	< 2.0
Barium	mg/L	11/24/99	6010B	0.050	0.14
Cadmium	mg/L	11/24/99	6010B	0.030	< 0.030
Chromium	mg/L	11/24/99	6010B	0.050	< 0.050
Lead	mg/L	11/24/99	6010B	0.10	< 0.10
Mercury	mg/L	11/30/99	7470A	0.050	< 0.050
Selenium	mg/L	11/24/99	6010B	0.50	< 0.50
Silver	mg/L	11/24/99	6010B	0.10	< 0.10

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Released by:

Laboratory Supervisor

Report Date:

December 3, 1999

Page 1 of 1

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
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811 S. First
Artesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
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 8/8/99

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 99104

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Burlington Resources</u>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <u>Cox Canyon unit NE</u>
2. Management Facility Destination <u>Tierra Land Farm</u>	6. Transporter <u>Richard Resources</u>
3. Address of Facility Operator <u>#420 CR 3100 Aztec</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR) <u>Cox Canyon Unit NE</u>	<u>S. 24 T. 30N R. 9W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <u>B.</u> 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:

Contaminated Soil From waste Oil spill
The same waste Stream Analysis

RECEIVED
NOV 10 1999
OIL CON. DIV.
DIST. 3
RECEIVED
AUG 17 1999
OIL CON. DIV.
DIST. 3

Estimated Volume 5 cy Known Volume (to be entered by the operator at the end of the haul) 45 cy

SIGNATURE: David Bernwitz TITLE: Land Farm Manager DATE: 8-10-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bernwitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny D. Fout TITLE: Geologist DATE: 11/15/99
APPROVED BY: Martyn J. Kirk TITLE: Environmental Geologist DATE: 11/16/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Cox Canyon Unit: NE	Location of the Waste (Street address /or ULSTR): Cox Canyon Section: 24 Township: 30N Range: 9W
4. Source and Description of Waste: Soil contaminated as a result of a waste oil spill. Analysis has been faxed to Tierra 6/23/99. Approval 6/24/99	

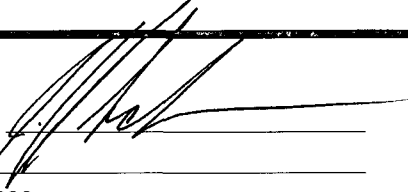
I, Jeff Schoenbacher representative for:
Burlington Resources do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

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

Name (Original Signature): 
Title: Environmental Rep.
Date: Tuesday, July 20, 1999



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
Project: **BR-Compressor Stations**
Sample ID: **Arch Rock Compressor**
Laboratory ID: **0398G06962**
Sample Matrix: **Oil**
Condition: **Intact**

Date Reported: **12/22/98**
Date Analyzed: **12/14/98**
Date Sampled: **11/30/98**
Date Received: **12/03/98**

Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

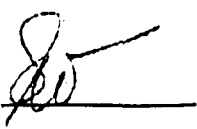
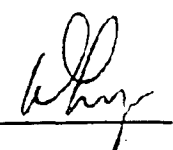
ND - Analyte not detected at stated detection level.

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 III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.

Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:Reported by: Reviewed by: 

District I - (505) 393-6161
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Artesia, NM 88210
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Rio Brazos Road
Artesia, NM 87410
District IV - (505) 827-7131

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

Form C-138
Originated 8/8/91

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99103

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <i>Burlington Resources</i>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <i>Quinn Unit SW</i>
2. Management Facility Destination <i>Tierra Land Farm</i>	6. Transporter <i>CF & M</i>
3. Address of Facility Operator <i>#420 CR 3100 Aztec</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR) <i>Quinn Unit SW</i>	<i>S. 16 T 31 N R 8 W</i>
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Soil Contaminated From waste Oil spill
The same waste stream Analysis*

RECEIVED
AUG 17 1999

RECEIVED
NOV 10 1999

OIL CON. DIV.
DIST. 3

OIL CON. DIV.
DIST. 3

Estimated Volume 15 cy Known Volume (to be entered by the operator at the end of the haul) 11 cy

SIGNATURE: David Bonawitz TITLE: Land Farm Manager DATE: 7-10-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny Z. Fent TITLE: Geologist DATE: 11/15/99
APPROVED BY: Monty Z. Kelly TITLE: Environmental Geologist DATE: 11/16/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Quinn Unit: SW	Location of the Waste (Street address /or ULSTR): Quinn Section: 16 Township: 31N Range: 8W
4. Source and Description of Waste: Soil contaminated as a result of a waste oil spill. Analysis has been faxed to Tierra 6/23/99. Approval 6/24/99	

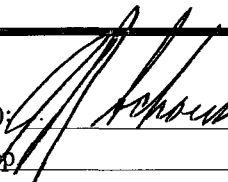
I, Jeff Schoenbacher representative for:
Burlington Resources do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

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

Name (Original Signature): 
Title: Environmental Rep
Date: Tuesday, July 27, 1999



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
 Project: **BR-Compressor Stations**
 Sample ID: **Arch Rock Compressor**
 Laboratory ID: **0398G06962**
 Sample Matrix: **Oil**
 Condition: **Intact**

Date Reported: **12/22/98**
 Date Analyzed: **12/14/98**
 Date Sampled: **11/30/98**
 Date Received: **12/03/98**

Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

ND - Analyte not detected at stated detection level.

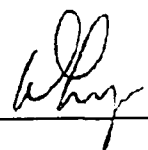
References:

Analysis performed according to SW-846 "Test Methods for Evaluating Solid Waste: Physical / Chemical Methods" United States Environmental Protection Agency 3rd Edition, Final Update III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.
 Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:

Reported by: 

Reviewed by: 

O. Box 1980
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tesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
ec, 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 3/8/95
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 99140

1. RCRA Exempt: ☐ Non-Exempt: ☒ <i>D Foust</i> Verbal Approval Received <i>10-22-99</i> Yes ☐ No ☐	4. Generator <i>CSI</i>
2. Management Facility Destination <i>Tierra Land Farm</i>	5. Originating Site <i>NE Blanco #401</i>
3. Address of Facility Operator <i>#420 CR 3100 Aztec</i>	6. Transporter <i>Inland Trucking</i>
7. Location of Material (Street Address or ULSTR) <i>NE Blanco unit #401</i>	8. State <i>New Mexico</i>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Compressor
Contaminated Soil From a Used Oil spill

Total Metals Analysis
OK myk

RECEIVED
NOV 10 1999
OIL CON. DIV.
DIST. 3

RECEIVED
NOV - 1 1999
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: *David Bonawitz* TITLE: *Land Farm Manager* DATE: *10-20-99*
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: *David Bonawitz* TELEPHONE NO. *334-8884*

(This space for State Use)

APPROVED BY: *Denny G. Foust* TITLE: *Geologist* DATE: *11/3/99*
Matthew J. Foust *myk* *11/16/99* Environmental Geologist *11/16/99*
APPROVED BY: *Matthew J. Foust* TITLE: *Environmental Geologist* DATE: *11/16/99*

FROM :

FAX NO. :

Oct. 19 1999 03:09PM P2



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
GOVERNOR

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

JENNIFER A. SALMBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Compressor Systems Inc PO Box 2144 Farmington NM 87401	2. Destination Name: Tierra Land Farm
3. Originating Site (name): NEBU-401	Location of the Waste (Street address &/or ULSTR): CSI UNIT #401 Sec. 09 T.30N R. 7W
Attach list of originating sites as appropriate	
4. Source and Description of Waste: USED OIL From Compressor	

DAVID ALGERO
(Print Name)

representative for:

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

☐ EXEMPT oilfield waste

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

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

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

☒ MSDS Information
☒ RCRA Hazardous Waste Analysis
☐ Chain of Custody

☐ Other (description):

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

Name (Original Signature):

Title:

Date:

ops mgr

10-19-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Tierra Environmental	Project #:	407403
Sample ID:	CSI #1	Date Reported:	11-05-99
Laboratory Number:	G217	Date Sampled:	10-19-99
Chain of Custody:	7503	Date Received:	10-19-99
Sample Matrix:	Soil	Date Analyzed:	11-04-99
Preservative:	Cool	Date Digested:	10-20-99
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

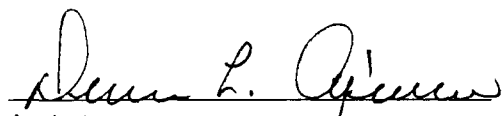
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	0.670	0.001
Barium	93.2	0.001
Cadmium	0.150	0.001
Chromium	0.414	0.001
Lead	22.0	0.001
Mercury	0.086	0.0005
Selenium	0.414	0.001
Silver	0.016	0.001

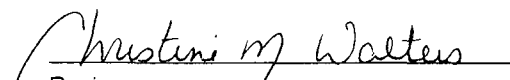
ND - Parameter not detected at the stated detection limit.

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

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by
GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: **NE Blanco 104.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-04-TM QA/QC	Date Reported:	11-05-99
Laboratory Number:	G182	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	11-04-99
Condition:	N/A	Date Digested:	10-19-99

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.536	0.534	0.4%	0% - 30%
Barium	ND	ND	0.001	17.3	17.3	0.0%	0% - 30%
Cadmium	ND	ND	0.001	0.254	0.250	1.6%	0% - 30%
Chromium	ND	ND	0.001	0.520	0.522	0.4%	0% - 30%
Lead	ND	ND	0.001	15.2	15.2	0.0%	0% - 30%
Mercury	ND	ND	0.0005	0.1020	0.1000	2.0%	0% - 30%
Selenium	ND	ND	0.001	0.434	0.432	0.5%	0% - 30%
Silver	ND	ND	0.001	0.105	0.100	4.8%	0% - 30%

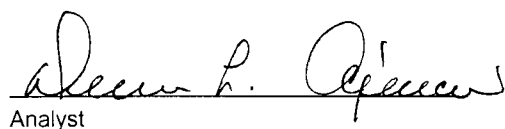
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	1.00	0.536	1.53	100%	80% - 120%
Barium	2.00	17.3	19.3	100%	80% - 120%
Cadmium	0.500	0.254	0.752	100%	80% - 120%
Chromium	0.500	0.520	1.02	100%	80% - 120%
Lead	0.500	15.2	15.7	100%	80% - 120%
Mercury	0.250	0.1020	0.348	99%	80% - 120%
Selenium	1.00	0.434	1.43	100%	80% - 120%
Silver	0.500	0.105	0.598	99%	80% - 120%

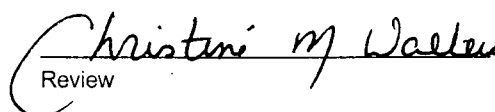
ND - Parameter not detected at the stated detection limit.

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

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by
GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: QA/QC for sample G182, G183, G217, G220, G221, G244, G279 and G280.


Analyst


Review

O. Box 1980
obbs. NM 88241-1980
District II - (505) 748-1283
11 S. First
tesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
ec. 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 3/8/90

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99153

1. RCRA Exempt: ☐ Non-Exempt: ☒

Verbal Approval Received: Yes ☐ No ☐

4. Generator Burlington Resources

5. Originating Site Crude oil line

2. Management Facility Destination Tierra Land Farm

6. Transporter Philip Service

3. Address of Facility Operator #420 CR 3100 Aztec

8. State New Mexico

7. Location of Material (Street Address or ULSTR) Between Canos Pluit See. 11 T. 29N R. 11W

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:

Contaminated Soil From Crude oil pipeline, Pit Closure

RECEIVED
NOV 17 1999

OIL CON. DIV.
DIST. 3

Estimated Volume 75 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: David Bonavite TITLE: Land Farm Manager DATE: 11-17-99

Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: David Bonavite TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Feent TITLE: Geologist DATE: 11/17/99

APPROVED BY: Monty G. Feent TITLE: Environmental Geologist DATE: 11/17/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Ticrra Land Farm
3. Originating Site (name): Crude Oil Transportation Line Unit: SE	Location of the Waste (Street address /or U.S.STR): Location between El Paso's and Conoco's Plant. Section: 11 Township: 29N Range: 11W
4. Source and Description of Waste: Pit closure of pit associated with Meridian Transportation crude oil pipeline.	

I, Ed Hasch 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 the appropriate classification)

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

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

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

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

Name (Original Signature): Ed Hasch
Title: Env. Rep.
Date: Tuesday, November 16, 1999

MERIDIAN OIL

March 14, 1994

Certified - P 794 519 781

Roger Anderson
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504

Re: Meridian Oil Transportation Inc. (MOTI)
Crude Oil Spills
Contaminated Soil Handling

Dear Mr. Anderson,

MOTI operates a fleet of 18 crude oil tanker trucks and pup trailers, four central crude oil storage tank batteries and one crude oil pipeline. Occasionally an unplanned spill occurs which results in the contamination of soil. MOTI does not classify the contaminated media as RCRA Exempt. As a non-exempt contaminated media, MOTI must determine if the media is a hazardous waste.

On two recent spills MOTI evaluated hazardous waste potential by soil sampling and analysis for TCLP constituents. The TCLP analyses, in both spill instances, demonstrated that the contaminated media was not a hazardous waste. The contaminated media sampled was representative of most cleanup materials that might be encountered in MOTI spills and cleanups. The analyses are attached for your review. MOTI believes that the process and material involved in the spill cleanups described above are typical of those encountered in most MOTI spills.

In the future, if spill contaminated media is consistent with that described in the attached TCLP analyses, sampling or analyses will not be performed. MOTI will apply generators knowledge to make this determination on a case-by-case basis. If the process and spilled material are consistent as described above, the contaminated media will be managed as a non-hazardous waste. If the process and spilled material is not consistent, sampling and analysis will be performed. At least one TCLP analysis will be performed annually to verify our management strategy. MOTI will supply your office with the updated analysis.

MOTI personnel strive to eliminate spills during all phases of our operations. Spills are not accepted as normal operating procedure. MOTI conducts annual training on spill prevention and response and has developed a Transportation Oil Spill Response Plan to support our spill prevention efforts.

MOTI Contaminated Soil Handling**Page 2**

MOTI remains committed to spill prevention. However, when small unplanned events occur the above described waste management strategy will be implemented.

MOTI believes this waste management strategy addresses the NMOCD concerns stated during past phone conversations. If you have any questions or wish to discuss this strategy further, please call me at 326-9537.

Sincerely,



Craig A. Bock
Associate Environmental Representative

Attachments: TCLP Analyses (2)

cc: L. Marshall - MOTI
G. Garretson - MOTI
Denny Foust - OCD, Aztec, N.M.

ceb/sn/nmoedpl



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 326-4162

2506 West Main Street, Farmington, NM 87401

Client: Burlington Resources
Project: Soil
Sample ID: Crudeline Pit
Lab ID: 0309VW05478
Matrix: Soil
Condition: N/A

Date Reported: 11/11/99
Date Sampled: 11/01/99
Date Received: 11/01/99

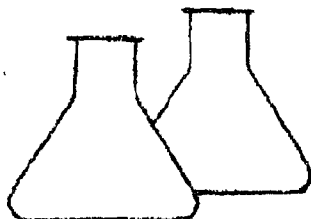
Date Analyzed: 11/10/99

Parameter	Analytical Result	PQL	MCL	Units
TCLP - EPA Method 1311				
Arsenic	<0.005	0.005	5.0	mg/L
Barium	0.76	0.01	100.0	mg/L
Cadmium	<0.004	0.004	1.0	mg/L
Chromium	<0.01	0.01	5.0	mg/L
Lead	0.01	0.01	5.0	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	0.01	0.005	1.0	mg/L
Silver	<0.01	0.01	5.0	mg/L

PRELIMINARY

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1988.

Reviewed By: _____
William Lipps



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1866

EPA METHOD 8040 PHENOLS

Client:	Meridian	Project #:	92131
Sample ID:	Stockpile Comp.	Date Reported:	12-30-93
Laboratory Number:	6685	Date Sampled:	12-27-93
Sample Matrix:	Soil	Date Received:	12-27-93
Preservative:	Cool	Date Extracted:	12-27-93
Condition:	Cool & Intact	Date Analyzed:	12-30-93
		Analysis Requested:	TCLP

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

SURROGATE RECOVERY	Parameter	Percent Recovery
	2-fluorophenol	97 %
	2,4,6-tribromophenol	102 %

Method: 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.

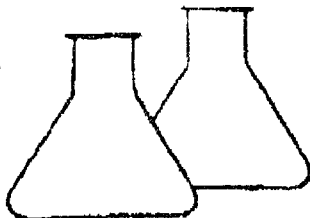
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1992

ND - Parameter not detected at the stated detection limit.

Comments: Storage 1 Facility - Hart Canyon
5-Point Stockpile Composite

David L. Brown
Analyst

Marvin D. Young
Review



ENVIROTECH LABS

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

EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Meridian	Project #:	92131
Sample ID:	Stockpile Comp.	Date Reported:	12-30-93
Laboratory Number:	6685	Date Sampled:	12-27-93
Sample Matrix:	Soil	Date Received:	12-27-93
Preservative:	Cool	Date Extracted:	12-27-93
Condition:	Cool and Intact	Date Analyzed:	12-29-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Dat. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-dinitrotoluene	ND	0.020	0.13
Hexachlorobenzene	ND	0.020	0.13

SURROGATE RECOVERY:	Parameter	Percent Recovery
	2-fluorobiphenyl	96.8 %

Method: 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.

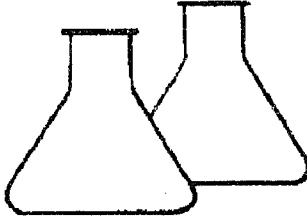
Method 8090, Nitroaromatics and Cyclic Ketones,
 Test Methods for Evaluating Solid Waste, SW-846,
 USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Storage 1 Facility - Hart Canyon
 5-Point Stockpile Composite

Kevin L. Grewer
 Analyst

Marion D. Young
 Review



ENVIROTECH LABS

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

1993 Analysis
on impacted
soils from storage
facility that feed
the crude oil
transportation line.

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Meridian	Project #:	92131
Sample ID:	Stockpile Comp.	Date Reported:	12-29-93 ✓
Laboratory Number:	6685	Date Sampled:	12-27-93
Sample Matrix:	Soil	Date Received:	12-27-93
Preservative:	Cool	Date Analyzed:	12-29-93
Condition:	Cool & Intact	Date Extracted:	12-27-93
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	ND	0.001	5.000
BARIUM	2.3	0.1	100.0
CADMIUM	0.003	0.001	1.000
CHROMIUM	ND	0.001	5.000
LEAD	0.013	0.001	5.000
MERCURY	0.005	0.002	0.200
SELENIUM	ND	0.001	1.000
SILVER	ND	0.01	5.00

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

Methods 7060, 7090, 7131, 7191, 7470, 7421, 7740, 7760A
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

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

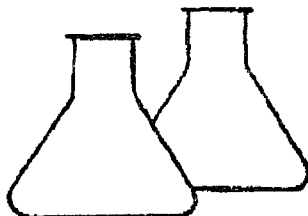
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: Storage 1 Facility - Hart Canyon
5-Point Stockpile Composite

Denis L. Reiman
Analyst

Marie D. Yang
Review



ENVIROTECH LABS

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

RCRA CHARACTERISTICS

Client:	Meridian	Project #:	92131
Sample ID:	S-point Stockpile Comp.	Date Reported:	12-27-93
Lab ID#:	6685	Date Sampled:	12-27-93
Sample Matrix:	Soil	Date Received:	12-27-93
Preservative:	Cool	Date Analyzed:	12-27-93
Condition:	Cool & Intact		

IGNITABILITY: Did not ignite upon direct contact with flame after heating to 600°C.

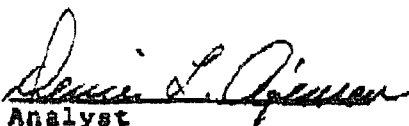
CORROSIVITY: pH of 7.64

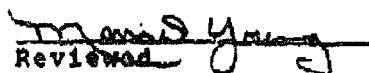
REACTIVITY: Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).

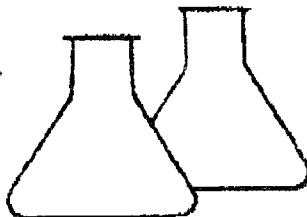
Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: $\leq$ pH 2 or $\geq$ pH 12.5 is hazardous waste.

Storage 1 Facility - Hart Canyon


Analyst


Reviewed



ENVIROTECH LABS

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

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

Client:	Meridian	Project #:	92131
Sample ID:	Stockpile Comp.	Date Reported:	12-29-93
Laboratory Number:	6885	Date Sampled:	12-27-93
Sample Matrix:	Soil	Date Received:	12-27-93
Preservative:	Cool	Date Extracted:	12-27-93
Condition:	Cool & Intact	Date Analyzed:	12-28-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
2-Butanone	0.019	0.007	200
1,1-Dichloroethene	ND	0.008	0.7
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	0.354	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.006	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	99 %
Bromofluorobenzene	102 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
July 1992.
Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, July 1992.
Method 8010, Halogenated Volatile Organics, 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. 1986

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

ND - Parameter not detected at the stated detection limit.

Comments: Storage 1 Facility - Hart Canyon
5-Point Stockpile Composite

[Signature]
Analyst

[Signature]
Review

3286

Form C-138
O. Box 1980
obbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
tertia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
Loc, 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 3/8/90

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Submit Original
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to appropriate
District Office

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99146

1. RCRA Exempt: ☐ Non-Exempt: ☒

Verbal Approval Received: Yes ☐ No ☐

4. Generator Burlington Resources

5. Originating Site Manzanares Compressor Sta.

2. Management Facility Destination Tierra Land Farm

6. Transporter Fesco

3. Address of Facility Operator #420 CR 3100 Aztec

8. State New Mexico

7. Location of Material (Street Address or ULSTRY) Manzanares Unit Compressor Sta. SE Sec 4 T.29N 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:

Contaminated Soil From Used Compressor Oil
The same Waste Stream Analysis

RECEIVED
NOV - 9 1999

OIL CON. DIV.
DIST. 3

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

SIGNATURE: David Bonawitz TITLE: Land Farm Manager DATE: 11-1-99

Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Feant TITLE: Geologist DATE: 11/9/99

APPROVED BY: Monty J. King TITLE: Environmental Geologist DATE: 11/10/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra Land Farm
3. Originating Site (name): Manzanares Compressor Station Unit: SE	Location of the Waste (Street address /or ULSTR): Manzanares Compressor Station Section: 4 Township: 29N Range: 8W
4. Source and Description of Waste: Soil	

I, Kevin Johnson 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 the appropriate classification)

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

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

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

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

Name (Original Signature): Kevin Johnson
Title: Senior Pipeline Operator
Date: Tuesday, October 26, 1999



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
Project: **BR-Compressor Stations**
Sample ID: **Arch Rock Compressor**
Laboratory ID: **0398G06962**
Sample Matrix: **Oil**
Condition: **Intact**

Date Reported: **12/22/98**
Date Analyzed: **12/14/98**
Date Sampled: **11/30/98**
Date Received: **12/03/98**

Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

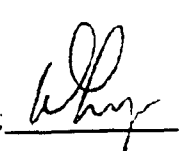
ND - Analyte not detected at stated detection level.

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 III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.
Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:

Reported by: Reviewed by: 

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

New Mexico
Energy Minerals and Natural Resources 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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NOV 10 1999

Environmental Bureau
Oil Conservation Division

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 99147

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received <u>11-5-99</u> Yes ☒ No ☐ <u>D Foust</u>	4. Generator <u>Key Energy Service</u>
2. Management Facility Destination <u>Tierra Land Farm</u>	5. Originating Site <u>Francis Water Hole</u>
3. Address of Facility Operator <u>#420 CR 3100 Aztec</u>	6. Transporter <u>Key</u>
7. Location of Material (Street Address or ULSTR) <u>Francis Water Hole</u>	8. State <u>New Mexico</u>
9. Circle One: <u>Denny We Talk About this Sec. 13 T. 30 W, R 7 W.</u>	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil From Diesel Fuel spill
Navajo Lake

RECEIVED
NOV - 9 1999

OIL CON. DIV.
PMT. 3

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

SIGNATURE: David Bonauite TITLE: Land Farm Manager DATE: 11-5-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonauite TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/9/99
APPROVED BY: Martyn G. Foust TITLE: Environmental Geologist DATE: 11/10/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Key Energy Services, Inc. Four Corners Division 5651 U.S. Hwy 64 Farmington, NM 87401	2. Destination Name: Tierra Environmental Company
3. Originating Site (name): Francis Water Hole Navajo Lake	Location of the Waste (Street address &/or ULSTR): 36° 48.56' N, 107° 32.30' W. Min.
Attach list of originating sites as appropriate. Will send information.	
4. Source and Description of Waste Diesel Fuel Spill, Sandy Soil + sandstone rock.	

I, Robert W. James representative for:
Key Energy Service, Four Corners Division (Print Name)
 do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July 1988, regulatory determination, the above described waste is: (Check appropriate classification)

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

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

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

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

Name (Original Signature):

Title:

Date:

Robert W. James

Shop Manager

05 November 1999



GASC0220

Revised 10-JAN-1994

Printed 5-APR-1994

No. 2 Diesel Fuel

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

CAS Number 68476-34-6

Tradenames and SynonymsDiesel Fuel No. 2, Low Sulfur
Diesel Fuel No. 2, High Sulfur

3502, 3504, 3510, 3512, 4152

Company Identification**MANUFACTURER/DISTRIBUTOR**CONOCO INC.
P.O. BOX 2197
HOUSTON, TX 77252**PHONE NUMBERS**Product Information 1-713-293-5550
Transport Emergency CHEMTREC 1-800-424-9300
Medical Emergency 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components**Material**

CAS Number %

Diesel Fuel, No. 2 68476-34-6 100

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

The product may cause irritation to the eyes, lungs, and skin after prolonged or repeated exposure. Extreme

(Continued)

HAZARDS IDENTIFICATION (Continued)

overexposure or aspiration into the lungs may cause lung damage and death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure.

Decomposition Products:

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lung and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES**First Aid****INHALATION**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

(Continued)

FIRST AID MEASURES (Continued)

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES**Flammable Properties**

Flash Point	130 F (54 C)
Method	TCC
Flammable limits in Air, % by Volume	
LEL	0.4
UEL	6
Autoignition	494 F (257 C)

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification Class II Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES**Safeguards (Personnel)**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

(Continued)

ACCIDENTAL RELEASE MEASURES (Continued)

NOTE: Vapors released from the spill may create an explosive atmosphere.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)

Ground container when pouring. Keep away from heat, sparks and flames.

Storage

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection when needed to avoid inhalation of mist or vapors and to maintain exposures below acceptable limits.

Protective Gloves: Impervious gloves, such as neoprene or NBR, should be worn when the potential exists for prolonged or repeated skin exposure.

Eye Protection: Safety glasses with side shields. Chemical goggles required when exposed to spray or mist or if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable. Launder contaminated clothing before reuse.

Exposure Guidelines**Exposure Limits**

No. 2 Diesel Fuel

PEL (OSHA)

None Established

TLV (ACGIH)

None Established

(Continued)

PHYSICAL AND CHEMICAL PROPERTIES**# Physical Data**

Boiling Point	350-690 F (177-366 C)
Vapor Pressure	1 mm Hg @ 68 F (20 C)
Vapor Density	>1 (Air = 1)
% Volatiles	(by volume) Nil
Solubility in Water	Insoluble
Odor	Aromatic
Form	Liquid
Color	*
Specific Gravity	0.84-0.88 @ 60 F (16 C))

*Color : High Sulfur - Green

Low Sulfur - Red or Undyed (Clear or Straw-Colored)

STABILITY AND REACTIVITY**Chemical Stability**

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Avoid heat, sparks, and flame.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION**Animal Data**

Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative

(Continued)

TOXICOLOGICAL INFORMATION (Continued)

significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Diesel Fuel -

Skin : Extremely irritating; no mortality at 5 ml/kg
in rabbits

Oral : LD50 of 9 ml/kg in rats

DISPOSAL CONSIDERATIONS**Waste Disposal**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

TRANSPORTATION INFORMATION**Shipping Information**
INTERNATIONAL HM-181

Proper Shipping Name	Gas Oil
Hazard Class	3
UN/NA Number	UN 1202
Packing Group	III
Label	Flammable liquid
Placard	Flammable

DOMESTIC HM-181

Proper Shipping Name	Diesel fuel
Hazard Class	Combustible liquid
UN/NA Number	NA 1993
Packing Group	III
Label	None
Placard	Combustible
Special Information	If shipped by vessel or air, use international description.

(Continued)

REGULATORY INFORMATION**U.S. Federal Regulations****OSHA HAZARD DETERMINATION**

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : Yes
Fire : Yes
Reactivity : No
Pressure : No

SARA, TITLE III, 313

This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA

This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)	Petroleum Hydrocarbons
Reportable Quantity	Film or sheen upon, or discoloration of, any water surface.

State Regulations (U.S.)**CALIFORNIA "PROP 65"**

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material contains the following ingredient(s) subject to the

(Continued)

REGULATORY INFORMATION(Continued)

Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient	Diesel Fuel Oil
Category	Hazardous Substance

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION**NFPA, NPCA-HMIS**

NFPA Rating	
Health	0
Flammability	2
Reactivity	0

NPCA-HMIS Rating

Health	1
Flammability	2
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS	MSDS Administrator
Address	Conoco Inc. PO Box 2197 Houston, TX 77252
Telephone	713/293-5550

Indicates updated section.

End of MSDS

District I - (505) 393-6161
P.O. Box 1980
Tobbs, NM 88241-1980
District II - (505) 748-1283
111 S. First
Artesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
El Paso, 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 3/8/95

RECEIVED

OCT 25 1999

Environmental Bureau
Oil Conservation Division

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator <i>Fontz & Barsam</i>
2. Management Facility Destination <i>Tierra Land Farm</i>	5. Originating Site <i>Bayless Tiger #12</i>
3. Address of Facility Operator <i>#420 CR. 3100 Aztec</i>	6. Transporter <i>Fontz & Barsam</i>
7. Location of Material (Street Address or ULSTR) <i>Bayless Tiger #12</i>	8. State <i>New Mexico</i>
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Contaminated Soil From Hydraulic line that broke,
Msds attached Repair a Gas line For EL Paso*

RECEIVED
OCT 20 1999
OIL CON. DIV.
DIST. 3

Estimated Volume 1 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: David Bonawitz TITLE: Land Farm Manager DATE: 10-11-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Feunt TITLE: Geologist DATE: 10/21/99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 10/25/99



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178 Fax (505) 334-61

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Foutz & Bursum Const. Co. Inc. 3620 East Main St. Farmington, New Mexico 87402	2. Destination Name: <i>Tierra Land Farm</i>
3. Originating Site (name): Bayless Tiger #12 San Juan Co. NE1/4 Sec. 27 T30N R13W Location of the Waste (Street address &/or ULSTR): Attach list of originating sites as appropriate	
4. Source and Description of Waste Hydraulic line broke, see attached MSDS <i>Repair a Gas line For El Paso DB 10-13-99</i>	

I, Dwight L. McGee representative for:

(Print Name)
Foutz & Bursum Const. Co. Inc.

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

☐ EXEMPT oilfield waste

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

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

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

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

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

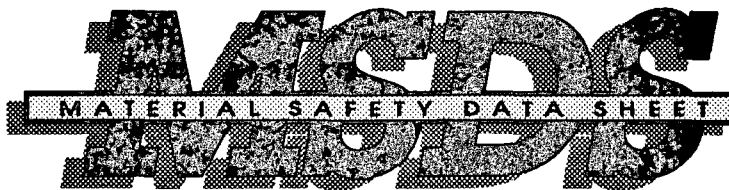
Name (Original Signature): Foutz & Bursum Const Co. Inc.
By Dwight L. McGee

Title: P.A.



Conoco Inc.

ATFC0140



Revised 04-Dec-92

Printed 28-Dec-92

POWER-TRAN III

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information	1-(713)293-5550
	Transport Emergency	1-(800)424-9300
	Medical Emergency	1-(800)441-3637
Chemical Family	Petroleum Hydrocarbon	
Trade Names and Synonyms	6686 Hydraulic Transmission Fluid, Power-Tran III	
NFPA Ratings	Health:	0
	Flammability:	1
	Reactivity:	0
NPCA-HMIS Ratings	Health:	1
	Flammability:	1
	Reactivity:	0
	Personal Protection rating to be supplied by user depending on use conditions.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number
Oil Mist, if generated	DP5017-68-9
Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.	

PHYSICAL DATA

Boiling Point	>555 to 1000°F
Vapor Pressure	(mmHg) Nil
Vapor Density	>1 (Air = 1.0)

(continued)

PHYSICAL DATA (continued)

% Volatiles	(by volume) Nil
Evaporation Rate	Nil (Ether = 1.0)
Water Solubility	Negligible
Odor	Mild petro. hydrocarbon
Form	Liquid
Color	Brown
Specific Gravity	0.88 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable at normal temperatures and storage conditions.
Incompatibility	Incompatible with strong oxidizing agents. Avoid sparks and flame.
Decomposition	Combustion forms oxides of carbon and may produce small quantities of oxides of nitrogen, phosphorus, sulfur, and zinc.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	330°F
Method	PMCC
Autoignition	660°F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO2.
Special Fire Fighting Instructions	Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined spaces without proper protective equipment including respiratory protection.

HEALTH HAZARD INFORMATION

Primary Route(s) of Exposure/Entry: Skin

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

(continued)

HEALTH HAZARD INFORMATION (continued)

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

Animal Studies:

Mouse skin painting studies have shown that highly solvent-refined petroleum lubricating oils, which are similar to ingredients in this product, have not caused skin tumors.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Applicable Exposure Limits	
Oil Mist, if generated	
AEL * (Du Pont)	5 mg/m3 - 8 & 12 Hr. TWA
TLV (ACGIH)	5 mg/m3 - 8 Hr. TWA, STEL 10 mg/m3
	See Notice of Intended Changes (1992-93)
	5 mg/m3 - 8 Hr. TWA, severely refined
PEL (OSHA)	5 mg/m3 - 8 Hr. TWA
* AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.	
Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	Wash skin thoroughly with soap and water after handling. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult. Acute aspiration of large amounts of oil laden material may produce a serious aspiration pneumonia; however, the chances of this occurring are quite unlikely.

(continued)

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions

Ventilation: Normal shop ventilation.

Personal Protective Equipment

Respiratory Protection: None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. Rubber or PVC recommended.

Eye Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable. Launder contaminated clothing before reuse.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION

DOT

Proper Shipping Name

Not regulated.

IATA/IMO

Proper Shipping Name

Not restricted.

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations. Do not store with strong oxidizing materials.

Store in cool, dry, well-ventilated area, away for heat and all sources of ignition. Keep container closed. Store only in approved containers.

(continued)

STORAGE CONDITIONS (continued)

Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container.

"Empty" container retains residue (liquid and/or vapor) and may explode in heat of a fire. Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TITLE III HAZARD CLASSIFICATIONS

Acute	No
Chronic	No
Fire	No
Reactivity	No
Pressure	No

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION

Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material is not known to contain extremely hazardous substances.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)

The material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements.

Toxic Chemical	: Organic Zinc Compound
CAS Registry Number	: 68649-42-3
Approximate Concentration	: 1.5%
(Upper Bound)	

(continued)

REGULATORY INFORMATION (continued)

TOXIC SUBSTANCES CONTROL ACT (TSCA) (40 CFR 710)

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory (40 CFR 710) and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies on the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient	: Petroleum Hydrocarbons
Reportable Quantity	: Film or sheen upon or discoloration of the water surface or adjoining shorelines.

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")

The material is not known to contain ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW ACT

The material contains the following ingredient(s) found on the Pennsylvania Worker and Community Right-to-Know Hazardous Substances List:

Ingredient	: Organic Zinc Compound
CAS Registry Number	: 68649-42-3
Category	: Environmental Hazard

Nonhazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of Pennsylvania Worker and Community Right to Know Act.

(continued)

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS

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

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

Form C-138
Originated 8/8/95

RECEIVED

OCT 25 1999

Environmental Bureau
Oil Conservation Division

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 99134

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator Burlington
2. Management Facility Destination Tierra Land Farm	5. Originating Site Rattlesnake Compressor Sta.
3. Address of Facility Operator #420 CR 3100 Aztec	6. Transporter Fesco
7. Location of Material (Street Address or ULSTR) Rattlesnake	8. State New Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil From Waste Oil spill

RECEIVED
OCT 20 1999
OIL CON. DIV.
DIST. 3

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

SIGNATURE: David Bonawitz TITLE: Land Farm Manager DATE: 10-12-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Jerry G. Fent TITLE: Geologist DATE: 10/21/99
APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 10/25/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Rattlesnake Unit: SW	Location of the Waste (Street address /or ULSTR): Rattlesnake Section: 10 Township: 31N Range: 7W
4. Source and Description of Waste: Soil contaminated as a result of a waste oil spill. Analysis has been faxed to Tierra 6/23/99. Approval 6/24/99 CC # 51817 Sampling Project	

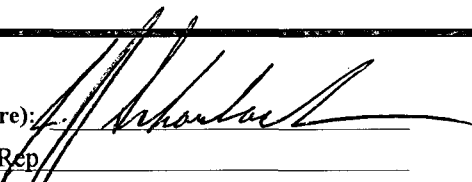
I, Jeff Schoenbacher representative for:
Burlington Resources do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

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

Name (Original Signature): 
Title: Environmental Rep
Date: Wednesday, October 06, 1999



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
Project: **BR-Compressor Stations**
Sample ID: **Arch Rock Compressor**
Laboratory ID: **0398G06962**
Sample Matrix: **Oil**
Condition: **Intact**

Date Reported: **12/22/98**
Date Analyzed: **12/14/98**
Date Sampled: **11/30/98**
Date Received: **12/03/98**

Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

ND - Analyte not detected at stated detection level.

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 III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.
Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:Reported by: Reviewed by: 

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

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

Form C-138
Originated 8/8/95

RECEIVED
OCT 25 1999
Environmental Bureau
Oil Conservation Division

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99128

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Baslington</u>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <u>Pump Canyon</u>
2. Management Facility Destination <u>Tierra Land Farm</u>	6. Transporter <u>Richard Resources</u>
3. Address of Facility Operator <u>#420 CR 3100 Aztec</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR) <u>Pump Canyon</u>	<u>S. 24 T. 30N R. 9W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil From Waste oil spill

RECEIVED
OCT 20 1999
OIL CON. DIV.
DIST. 3

Estimated Volume 22 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: David Bonacitz TITLE: Land Farm Manager DATE: 10-4-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonacitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Kent TITLE: Geologist DATE: 10/21/99

APPROVED BY: Martyn J. Kuhl TITLE: Environmental Geologist DATE: 10/25/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Pump Canyon <i>Compressor Station</i> Unit: NE	Location of the Waste (Street address /or ULSTR): Pump Canyon Section: 24 Township: 30N Range: 9W
4. Source and Description of Waste: Soil contaminated as a result of a waste oil spill. Analysis has been faxed to Tierra 6/23/99. Approval 6/24/99 CC # 51817 Sampling Project	

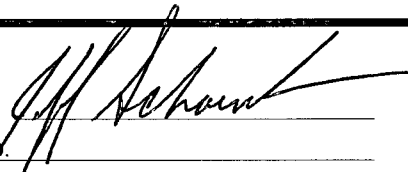
I, Jeff Schoenbacher representative for:
Burlington Resources do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

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

Name (Original Signature): 
Title: Environmental Rep.
Date: Thursday, September 30, 1999



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
Project: **BR-Compressor Stations**
Sample ID: **Arch Rock Compressor**
Laboratory ID: **0398G06962**
Sample Matrix: **Oil**
Condition: **Intact**

Date Reported: **12/22/98**
Date Analyzed: **12/14/98**
Date Sampled: **11/30/98**
Date Received: **12/03/98**

Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

ND - Analyte not detected at stated detection level.

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 III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.
Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:Reported by: Reviewed by: 

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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

RECEIVED

SEP 27 1999

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Oil Conservation Division

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <i>Barlington Resources</i>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <i>Middle Mesa Compressor</i>
2. Management Facility Destination <i>Tierra Land Farm</i>	6. Transporter <i>Fesco</i>
3. Address of Facility Operator <i>#420 CR 3100 Aztec</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR) <i>Middle Mesa Compressor</i>	<i>S. 10 T. 31N R. 7W</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Soil Contaminated From Compressor Oil & Wash water

RECEIVED
SEP 22 1999
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: *David Borawitz* TITLE: *Land Farm Manager* DATE: *9-21-99*
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: *David Borawitz* TELEPHONE NO. *334-8894*

(This space for State Use)

APPROVED BY: *Denny G. Zent* TITLE: *Geologist* DATE: *9/23/99*

APPROVED BY: *Martyn J. Hunt* TITLE: *Environmental Geologist* DATE: *9/28/99*

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Middle Mesa Compressor Unit: SW	Location of the Waste (Street address /or ULSTR): Middle Mesa Compressor Section: 10 Township: 31N Range: 7W
4. Source and Description of Waste: compressor oil and wash water	

I, Mike Lee 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 the appropriate classification)

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

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

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

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

Name (Original Signature):



Title: Specialist

Date: Monday, September 20, 1999



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
Project: **BR-Compressor Stations**
Sample ID: **Arch Rock Compressor**
Laboratory ID: **0398G06962**
Sample Matrix: **Oil**
Condition: **Intact**

Date Reported: **12/22/98**
Date Analyzed: **12/14/98**
Date Sampled: **11/30/98**
Date Received: **12/03/98**

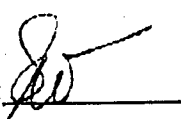
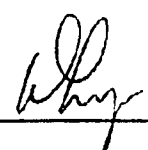
Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

ND - Analyte not detected at stated detection level.

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 III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.
Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:Reported by: Reviewed by: 

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New Mexico
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Oil Conservation Division
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Originated 3/8/95

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SEP 27 1999

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Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99125

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator <u>Burlington Resources</u>
2. Management Facility Destination <u>Tierra Laredo Farm</u>	5. Originating Site <u>Sims Mesa</u>
3. Address of Facility Operator <u>#420 CR, 3100 Aztec</u>	6. Transporter <u>Richard Resources</u>
7. Location of Material (Street Address or ULSTR) <u>Sims Mesa Unit</u>	8. State <u>New Mexico</u>
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <u>B</u> 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:

Contaminated Soil From Engine oil spill & wash water,
The same waste stream Analysis

RECEIVED
SEP 22 1999
OIL CON. DIV.
DIST. 3

Estimated Volume 7 cy Known Volume (to be entered by the operator at the end of the haul) 7 cy

SIGNATURE: David Benowitz TITLE: Land Farm Manager DATE: 9-15-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Benowitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Henry G. Fendt TITLE: Geologist DATE: 9/23/99
APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 9/28/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Sims Mesa Unit: NE	Location of the Waste (Street address /or ULSTR): Sims Mesa Section: 22 Township: 30N Range: 7W
4. Source and Description of Waste: Carry over from engine oil spill and wash water	

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 the 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): Ed Hasely
Title: Environmental Rep
Date: Wednesday, September 15, 1999



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

Inter-Mountain Laboratories, Inc.

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
Project: **BR-Compressor Stations**
Sample ID: **Arch Rock Compressor**
Laboratory ID: **0398G06962**
Sample Matrix: **Oil**
Condition: **Intact**

Date Reported: **12/22/98**
Date Analyzed: **12/14/98**
Date Sampled: **11/30/98**
Date Received: **12/03/98**

Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

ND - Analyte not detected at stated detection level.

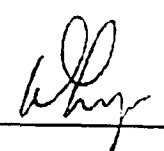
References:

Analysis performed according to SW-846 "Test Methods for Evaluating Solid Waste: Physical / Chemical Methods" United States Environmental Protection Agency 3rd Edition, Final Update III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.
Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:

Reported by: 

Reviewed by: 

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New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
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Form C-138
Originated 8/8/93

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SEP 17 1999
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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Enervest San Juan Operating LLC</u>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <u>Valencia Canyon S.U. #32-1</u>
2. Management Facility Destination <u>Tierra Land Farm</u>	6. Transporter <u>Tierra</u>
3. Address of Facility Operator <u>#420 CR 3100 Aztec</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR) <u>Valencia Canyon ^{S.U. #} 32-1</u>	<u>S. 32 T. 33N R. 11W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Gas Compressor

Gas Engine Oil HDAX Low Ash SAE 30
Held for metals analysis

RECEIVED
JUL 28 1999
OIL CON. DIV.
DIST. 3

Estimated Volume 1 cy Known Volume (to be entered by the operator at the end of the haul) 1 cy

SIGNATURE: David Borowitz TITLE: Land Farm Manager DATE: 7-28-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Borowitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Feut TITLE: Geologist DATE: 9/14/99
APPROVED BY: Antonia J. Kirk TITLE: Environmental Geologist DATE: 9/17/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: EnerVest San Juan Operating, LLC 570 Turner Drive, Unit B Durango, CO 81301	2. Destination Name: Tierra Environmental Co.
3. Originating Site (name): Valencia Canyon S.U. #32-1	Location of the Waste (Street address &/or ULSTR): Sec. 32, T 33N - R 11W
Attach list of originating sites as appropriate	
4. Source and Description of Waste Gas Compressor Gas Engine Oil HDAX Low Ash SAE 30	

I, Donald E. Babcock representative for: EnerVest San Juan Operating, LLC do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

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

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

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

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

Name (Original Signature): Donald E. Babcock

Title: Operations Manager



SOUTHERN UTE INDIAN TRIBE

July 21, 1999

Phil Nobis
Tierra Environmental Company, Inc.
P.O. Drawer 15250
Farmington, NM 87401

VIA FACSIMILE: (505) 334-9024

Re: Tribal notification of Transportation of Non-exempt Contaminated Soil from well site Southern Ute # 32-1, located in Valencia Canyon

Dear Mr. Nobis:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transportation of non-exempt soil contaminated with compressor oil from the above referenced site to your landfarm in New Mexico.

Certification may be required by the state if New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or generator. Transportation of this waste may be subject to other state and Federal law.

Sincerely,

A handwritten signature in cursive script, reading "Cheryl L. Wiescamp".

Cheryl L. Wiescamp
Division Head
Environmental Programs



Material Safety Data Sheet

Page 1 of 7

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Gas Engine Oil HDAX Low Ash SAE 30

PRODUCT NUMBER(S): CPS232327 CPS238118

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 HDAX Low Ash SAE 30

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
HYDROTREATED DIST., HVY PARA			
Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC			
CAS64742547	90.0%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

ADDITIVES INCLUDING THE FOLLOWING
10.0%

ZINC ALKARYL DITHIOPHOSPHATE
Chemical Name: ZINC ALKARYL DITHIOPHOSPHATE
CAS54261675 < 1.5%

Revision Number: 5 Revision Date: 01/11/95 MSDS Number: 004210
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
and Health Risk Assessment Unit, CATC, P.O. Box 4054, Richmond, CA 94804

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
AI-5 - Appendix A Categories	() - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE:

This substance is not expected to cause prolonged or significant eye irritation.

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.

INGESTION:

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed.

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.

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

Revision Number: 5	Revision Date: 01/11/95	MSDS Number: 004210
NDA - No Data Available	NA - Not Applicable	

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) 410F (210C) 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, including self-contained breathing apparatus.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous.

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:**

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

Operation was begun on 11/11/95

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:

Dark amber liquid.

pH: NDA

VAPOR PRESSURE: NA

VAPOR DENSITY

(AIR=1): NA

BOILING POINT: NA

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: 11.0 cSt @ 100C (Min.)

PERCENT VOLATILE

(VOL): NA

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.

11. TOXICOLOGICAL INFORMATION

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

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 on the components.

ACUTE INHALATION EFFECTS:

No product toxicology data available. The hazard evaluation was based on data on the components.

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).

This product contains zinc alkaryl dithiophosphate which is similar in toxicity to zinc alkyl dithiophosphate (ZDDP). Several (ZDDPs) have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

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

Revision Number: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

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.

ZINC ALKARYL DITHIOPHOSPHATE

is found on lists: 01,11,

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

is found on lists: 14,15,17,

Revision Number: 5 Revision Date: 01/11/95 MSDS Number: 004210
NDA - No Data Available NA - Not Applicable

1.5. 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.

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 responsibil-
ity 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: 5

Revision Date: 01/11/95

MSDS Number: 004210

NDA - No Data Available

NA - Not Applicable

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

August 26, 1999

Mr. Phil Nobis
Tierra Environmental Services, Inc.
P.O. Drawer 15250
Farmington, New Mexico 887499

Client No.: 04074-03
Job No.: 407403

Dear Mr. Nobis,

Enclosed are the analytical results for the sample collected from the location designated as "Enervest, Valencia Canyon - S. V. #32-1". One solid sample was collected by Tierra Environmental designated personnel on 08/23/99, and delivered to the Envirotech laboratory on 08/23/99 for RCRA Metals analysis.

The sample was documented on Envirotech Chain of Custody No. 7380 and assigned Laboratory No. F970 for tracking purposes. The sample was analyzed on 08/25/99 using USEPA or equivalent methods.

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

Respectfully submitted,
Envirotech, Inc.


Stacy W. Sender
Environmental Scientist/Laboratory Manager
enclosure

SWS\sws\04074-03.131/wpd

RECEIVED
SEP 14
OIL CON. DIV.
DIST. 3

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**TRACE METAL ANALYSIS**
Quality Control /
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-25-TM QA/QC	Date Reported:	08-25-99
Laboratory Number:	F970	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	08-25-99
Condition:	N/A	Date Digested:	08-25-99

Blank	Sample	Method	Blank	Sample	Method	Blank	Sample
(Conc./mg/kg)	(Conc./mg/kg)	Blank	Blank	Blank	Blank	Blank	Blank
Arsenic	ND	ND	0.005	0.020	0.020	0.0%	0% - 30%
Barium	ND	ND	0.5	6.0	6.0	0.0%	0% - 30%
Cadmium	ND	ND	0.005	0.160	0.160	0.0%	0% - 30%
Chromium	ND	ND	0.01	0.10	0.10	0.0%	0% - 30%
Lead	ND	ND	0.05	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.0025	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.005	0.015	0.015	0.0%	0% - 30%
Silver	ND	ND	0.05	ND	ND	0.0%	0% - 30%

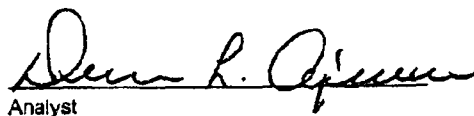
Soils	Soils	Soils	Soils	Soils	Soils
Concentration	Added	Sample	Sample	Recovery	Range
Arsenic	0.500	0.020	0.515	99%	80% - 120%
Barium	5.0	6.0	11.0	100%	80% - 120%
Cadmium	2.50	0.160	2.66	100%	80% - 120%
Chromium	2.50	0.10	2.60	100%	80% - 120%
Lead	5.00	ND	4.95	99%	80% - 120%
Mercury	0.125	ND	0.124	99%	80% - 120%
Selenium	0.500	0.015	0.515	100%	80% - 120%
Silver	2.50	ND	2.45	98%	80% - 120%

ND - Parameter not detected at the stated detection limit.

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

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by
GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: QA/QC for sample F970.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**TRACE METAL ANALYSIS**

Client:	Tierra Env.	Project #:	407403
Sample ID:	S. V. #32 - 1	Date Reported:	08-25-99
Laboratory Number:	F970	Date Sampled:	08-23-99
Chain of Custody:	7380	Date Received:	08-23-99
Sample Matrix:	Solid	Date Analyzed:	08-25-99
Preservative:	Cool	Date Digested:	08-25-99
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

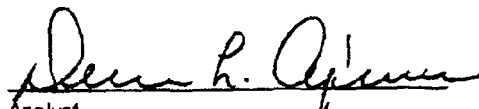
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	0.020	0.005
Barium	6.0	0.5
Cadmium	0.160	0.005
Chromium	0.10	0.01
Lead	ND	0.05
Mercury	ND	0.0025
Selenium	0.015	0.005
Silver	ND	0.05

ND - Parameter not detected at the stated detection limit.

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

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by
GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: **Enervest, Valencia Canyon.**


Analyst


Review

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

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

Form C-13
Originated 8/8/99
Submit Origin
Plus 1 Copy
to appropriate
District Office

RECEIVED
SEP 17 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 99120

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: 9-3-99 Yes ☒ No ☐ D. Foust	4. Generator Key Energy
2. Management Facility Destination Tierra Land Farm	5. Originating Site Farmington Facility
3. Address of Facility Operator #420 CR 3100 Aztec	6. Transporter Key
7. Location of Material (Street Address or ULSTR) Farmington Facility	8. State New Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil From Diesel Fuel Spill

RECEIVED
SEP 14
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 28 cy

SIGNATURE: David Bonawitz TITLE: Land Farm Manager DATE: 9-3-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonawitz TELEPHONE NO. 334-8894

(This space for State Use)
APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/13/99
APPROVED BY: Martin D. White TITLE: Environmental Geologist DATE: 9-17-99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Key Energy Services, Inc. Four Corners Division 5651 U.S. Hwy 64 Farmington, NM 87401	2. Destination Name: Tierra Environmental Company, Inc.
3. Originating Site (name): Farmington Facility Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): 5651 U.S. Hwy. 64 Farmington, NM 87401
4. Source and Description of Waste Diesel Fuel Spill, September 2, 1999, from fuel tanks Unit 1544. Water Truck	

I, Robert W. James representative for: Key Energy Services, Inc., Four Corners Division 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): Robert W. James
 Title: Shop Manager
 Date: 02 September, 1999



GASC0220

Revised 10-JAN-1994

Printed 5-APR-1994

No. 2 Diesel Fuel

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

CAS Number 68476-34-6

Tradenames and SynonymsDiesel Fuel No. 2, Low Sulfur
Diesel Fuel No. 2, High Sulfur

3502, 3504, 3510, 3512, 4152

Company IdentificationMANUFACTURER/DISTRIBUTOR
CONOCO INC.
P.O. BOX 2197
HOUSTON, TX 77252**PHONE NUMBERS**Product Information 1-713-293-5550
Transport Emergency CHEMTREC 1-800-424-9300
Medical Emergency 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Diesel Fuel, No. 2	68476-34-6	100

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

The product may cause irritation to the eyes, lungs, and skin after prolonged or repeated exposure. Extreme

(Continued)

HAZARDS IDENTIFICATION (Continued)

overexposure or aspiration into the lungs may cause lung damage and death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure.

Decomposition Products:

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lung and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

(Continued)

FIRST AID MEASURES(Continued)

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	130 F (54 C)
Method	TCC
Flammable limits in Air, % by Volume	
LEL	0.4
UEL	6
Autoignition	494 F (257 C)

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification Class II Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

(Continued)

ACCIDENTAL RELEASE MEASURES (Continued)

NOTE: Vapors released from the spill may create an explosive atmosphere.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)

Ground container when pouring. Keep away from heat, sparks and flames.

Storage

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection when needed to avoid inhalation of mist or vapors and to maintain exposures below acceptable limits.

Protective Gloves: Impervious gloves, such as neoprene or NBR, should be worn when the potential exists for prolonged or repeated skin exposure.

Eye Protection: Safety glasses with side shields. Chemical goggles required when exposed to spray or mist or if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable. Launder contaminated clothing before reuse.

Exposure Guidelines

Exposure Limits

No. 2 Diesel Fuel

PEL (OSHA)

None Established

TLV (ACGIH)

None Established

(Continued)

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	350-690 F (177-366 C)
Vapor Pressure	1 mm Hg @ 68 F (20 C)
Vapor Density	>1 (Air = 1)
% Volatiles	(by volume) Nil
Solubility in Water	Insoluble
Odor	Aromatic
Form	Liquid
Color	*
Specific Gravity	0.84-0.88 @ 60 F (16 C)

*Color : High Sulfur - Green
Low Sulfur - Red or Undyed (Clear or Straw-Colored)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Avoid heat, sparks, and flame.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative

(Continued)

TOXICOLOGICAL INFORMATION (Continued)

significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Diesel Fuel -

Skin : Extremely irritating; no mortality at 5 ml/kg
in rabbits
Oral : LD50 of 9 ml/kg in rats

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

TRANSPORTATION INFORMATION

Shipping Information

INTERNATIONAL HM-181

Proper Shipping Name	Gas Oil
Hazard Class	3
UN/NA Number	UN 1202
Packing Group	III
Label	Flammable liquid
Placard	Flammable

DOMESTIC HM-181

Proper Shipping Name	Diesel fuel
Hazard Class	Combustible liquid
UN/NA Number	NA 1993
Packing Group	III
Label	None
Placard	Combustible
Special Information	If shipped by vessel or air, use international description.

(Continued)

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : Yes
Fire : Yes
Reactivity : No
Pressure : No

SARA, TITLE III, 313

This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA

This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)	Petroleum Hydrocarbons
Reportable Quantity	Film or sheen upon, or discoloration of, any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material contains the following ingredient(s) subject to the

(Continued)

REGULATORY INFORMATION(Continued)

Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient	Diesel Fuel Oil
Category	Hazardous Substance

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION**NFPA, NPCA-HMIS**

NFPA Rating	
Health	0
Flammability	2
Reactivity	0

NPCA-HMIS Rating	
Health	1
Flammability	2
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS	MSDS Administrator
Address	Conoco Inc. PO Box 2197 Houston, TX 77252
Telephone	713/293-5550

Indicates updated section.

End of MSDS

District I - (505) 393-6161
P. O. Box 1290
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
Artesia, NM 87410
District IV - (505) 827-7131

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

RECEIVED

AUG 3 1999

Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99097

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: 7-23-99 Yes ☒ No ☐ D. Forest	4. Generator Philip Environmental
2. Management Facility Destination Tierra Land Farm	5. Originating Site Philip yard
3. Address of Facility Operator #420 CR 3100 Aztec	6. Transporter Philip
7. Location of Material (Street Address or ULSTR) Philip Environmental	8. State New Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Soil w/ some Gravel Contaminated with used waste Oil

RECEIVED
JUL 28 1999

OIL CON. DIV.
DIST. 3

Estimated Volume 1.5 cy Known Volume (to be entered by the operator at the end of the haul) 1.5 cy

SIGNATURE: David Bonvite TITLE: Land Farm Manager DATE: 7-23-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Bonvite TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Fent TITLE: Geologist DATE: 7/28/99
APPROVED BY: Martin J. Phil TITLE: Environmental Geologist DATE: 8/3/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Philip Environmental Services Corp. 4000 Monroe Road Farmington, NM 87401	2. Destination Name: Tierra Environmental Company
3. Originating Site (name): Philip Environmental Services Corp. 4000 Monroe Road Farmington, NM 87401 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Soil w/ some gravel impacted with used waste oil from the overflow of a waste oil tank.	

I, Martin J. NEE representative for:
(Print Name)
Philip Environmental Services Corp. 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: Operations Manager

Date: 7/22/99



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

PL I.D. 906097

July 9, 1999

Philip Environmental
4000 Monroe Road
Farmington, NM 87401

Project Name/Number: YARD DRUMS 3342

Attention: Carolyn Wahl

On 06/25/99, Pinnacle Laboratories Inc., (ADHS License No. AZ0592), received a request to analyze **non-aqueous** samples. The samples 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.

All analyses were performed by Environmental Services Laboratory, Durham, OR.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

A handwritten signature in black ink, appearing to read "Kim McNeill".

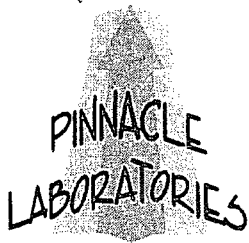
Kimberly D. McNeill
Project Manager

A handwritten signature in black ink, appearing to read "H. Mitchell Rubenstein".

H. Mitchell Rubenstein, Ph.D.
General Manager

MR:jt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT : PHILIP ENVIRONMENTAL DATE RECEIVED : 06/25/99
PROJECT # : 3342
PROJECT NAME : YARD DRUMS REPORT DATE : 07/09/99

PL ID: 906097

	PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	906097-01	YD-001	NON-AQUEOUS	06/25/99

--TOTALS--

<u>MATRIX</u>	<u>#SAMPLES</u>
NON-AQUEOUS	1

Environmental Services Laboratory, Inc.



17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 670-8520

July 07, 1999

Kim McNeill
Pinnacle Laboratories
2709-D Pan American Fwy NE

Albuquerque, NM 87107

TEL: 505-344-3777

FAX (505) 344-4413

RE: 906097/PE/Yard Drums

Order No.: 9906145

Dear Kim McNeill,

Environmental Services Laboratory received 1 sample on 06/29/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BNA Semi-Vol Organics, Aqueous (SW8270B)

ICP Metals (ICPMET)

MERCURY (Mercury)

VOLATILES by GC/MS (SW8260A)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety, without the written approval from the Laboratory.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Kimberly Hill
Project Manager

Keith Hunter
Technical Review

ANALYTICAL SERVICES FOR THE ENVIRONMENT

Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories
Lab Order: 9906145
Project: 906097/PE/Yard Drums
Lab ID: 9906145-01A

Client Sample ID: 906097-01
Tag Number:
Collection Date: 06/25/99
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
MERCURY		SW 7470 / EPA 245.				Analyst: cms
Mercury, TCLP	ND	0.0002		mg/L	1	07/02/99
ICP METALS		SW 6010 / EPA 200.				Analyst: btn
Arsenic, TCLP	ND	0.05		mg/L	1	06/30/99
Barium, TCLP	1.5	0.05		mg/L	1	06/30/99
Cadmium, TCLP	ND	0.05		mg/L	1	06/30/99
Chromium, TCLP	ND	0.05		mg/L	1	06/30/99
Lead, TCLP	ND	0.05		mg/L	1	06/30/99
Selenium, TCLP	ND	0.05		mg/L	1	06/30/99
Silver, TCLP	ND	0.05		mg/L	1	06/30/99
VOLATILES BY GC/MS		SW 8260A				Analyst: keh
1,1-Dichloroethene	ND	10		µg/L	10	07/02/99
1,2-Dichloroethane	ND	10		µg/L	10	07/02/99
1,4-Dichlorobenzene	ND	10		µg/L	10	07/02/99
2-Butanone	ND	200		µg/L	10	07/02/99
Benzene	ND	10		µg/L	10	07/02/99
Carbon tetrachloride	ND	10		µg/L	10	07/02/99
Chlorobenzene	ND	10		µg/L	10	07/02/99
Chloroform	ND	10		µg/L	10	07/02/99
Tetrachloroethene	ND	10		µg/L	10	07/02/99
Trichloroethene	ND	10		µg/L	10	07/02/99
Vinyl chloride	ND	20		µg/L	10	07/02/99
Surr: 4-Bromofluorobenzene	99.2	86-115		%REC	10	07/02/99
Surr: Dibromofluoromethane	110.6	86-118		%REC	10	07/02/99
Surr: Toluene-d8	96.4	88-110		%REC	10	07/02/99

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level

Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories
Lab Order: 9906145
Project: 906097/PE/Yard Drums
Lab ID: 9906145-01A

Client Sample ID: 906097-01
Tag Number:
Collection Date: 06/25/99
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BNA SEMI-VOL ORGANICS, AQUEOUS		SW 8270B				Analyst: keh
1,4-Dichlorobenzene	ND	5		µg/L	1	07/06/99
2,4,5-Trichlorophenol	ND	5		µg/L	1	07/06/99
2,4,6-Trichlorophenol	ND	5		µg/L	1	07/06/99
2,4-Dinitrotoluene	ND	5		µg/L	1	07/06/99
2-Methylphenol	ND	5		µg/L	1	07/06/99
3-Methylphenol	ND	5		µg/L	1	07/06/99
4-Methylphenol	ND	5		µg/L	1	07/06/99
Hexachlorobenzene	ND	5		µg/L	1	07/06/99
Hexachlorobutadiene	ND	5		µg/L	1	07/06/99
Hexachloroethane	ND	5		µg/L	1	07/06/99
Nitrobenzene	ND	5		µg/L	1	07/06/99
Pentachlorophenol	ND	5		µg/L	1	07/06/99
Surr: 2,4,6-Tribromophenol	79.9	10-123		%REC	1	07/06/99
Surr: 2-Fluorobiphenyl	59.4	43-116		%REC	1	07/06/99
Surr: 2-Fluorophenol	31.7	21-100		%REC	1	07/06/99
Surr: 4-Terphenyl-d14	54.6	33-141		%REC	1	07/06/99
Surr: Nitrobenzene-d5	57.1	35-114		%REC	1	07/06/99
Surr: Phenol-d5	19.3	10-94		%REC	1	07/06/99

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories
Work Order: 9906145
Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank Batch ID: 05 8260 A-07/ Test Code: SW8260A Units: µg/L Analysis Date: 07/02/99 Prep Date:
Client ID: 9906145 Run ID: ANGSTROM_990702B SeqNo: 16504
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

1,1,1,2-Tetrachloroethane	ND	1																		
1,1,1-Trichloroethane	ND	1																		
1,1,2,2-Tetrachloroethane	ND	1																		
1,1,2-Trichloroethane	ND	1																		
1,1-Dichloroethane	ND	1																		
1,1-Dichloroethene	ND	1																		
1,1-Dichloropropene	ND	1																		
1,2,3-Trichlorobenzene	ND	1																		
1,2,3-Trichloropropane	ND	1																		
1,2,4-Trichlorobenzene	ND	1																		
1,2,4-Trimethylbenzene	ND	1																		
1,2-Dibromo-3-chloropropane	ND	2																		
1,2-Dibromoethane	ND	1																		
1,2-Dichlorobenzene	ND	1																		
1,2-Dichloroethane	ND	1																		
1,2-Dichloropropane	ND	1																		
1,3,5-Trimethylbenzene	ND	1																		
1,3-Dichlorobenzene	ND	1																		
1,3-Dichloropropane	ND	1																		
1,4-Dichlorobenzene	ND	1																		
2,2-Dichloropropane	ND	1																		
2-Butanone	ND	20																		
2-Chloroethyl vinyl ether	ND	10																		
2-Chlorotoluene	ND	1																		
2-Hexanone	ND	20																		
4-Chlorotoluene	ND	1																		
4-Isopropyltoluene	ND	1																		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories

Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Method Blank

4-Methyl-2-pentanone	ND	1
Acetone	ND	20
Acrylonitrile	ND	50
Benzene	ND	1
Bromobenzene	ND	1
Bromochloromethane	ND	1
Bromodichloromethane	ND	1
Bromoform	ND	1
Bromomethane	ND	2
Carbon disulfide	ND	1
Carbon tetrachloride	ND	1
Chlorobenzene	ND	1
Chloroethane	ND	2
Chloroform	ND	1
Chloromethane	ND	2
cis-1,2-Dichloroethene	ND	1
cis-1,3-Dichloropropene	ND	1
Dibromochloromethane	ND	1
Dibromomethane	ND	1
Dichlorodifluoromethane	ND	2
Ethylbenzene	ND	1
Hexachlorobutadiene	ND	1
Iodomethane	ND	1
Isopropylbenzene	ND	1
m,p-Xylene	ND	2
Methyl tert-butyl ether	ND	2
Methylene chloride	ND	20
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
Naphthalene	ND	5
o-Xylene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories

Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Method Blank

tert-Butylbenzene	ND	1
Tetrachloroethene	ND	1
Toluene	ND	1
trans-1,2-Dichloroethene	ND	1
trans-1,3-Dichloropropene	ND	1
Trichloroethene	ND	1
Trichlorofluoromethane	ND	2
Vinyl acetate	ND	1
Vinyl chloride	ND	2

Sample ID: MB-584 Batch ID: 584 Test Code: ICPMET Units: mg/L Analysis Date: 06/30/99 Prep Date: 06/30/99

Client ID: 9906145 Run ID: ICP_990630B SeqNo: 16239

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.005									
Barium	ND	0.005									
Cadmium	ND	0.002									
Chromium, 200.7	ND	0.005									
Copper, 200.7	ND	0.005									
Lead, 200.7	ND	0.005									
Magnesium	ND	0.05									
Potassium	ND	0.2									
Selenium	ND	0.005									
Silver	ND	0.005									
Zinc, 200.7	ND	0.005									

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pinnacle Laboratories
Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Method Blank

Sample ID: MB-587 Batch ID: 587 Test Code: SW8270B Units: µg/L Analysis Date: 07/06/99 Prep Date: 07/01/99

Client ID: 9906145 Run ID: MANFREDD_990706A SeqNo: 16598

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	ND	5									
1,2,4-Trichlorobenzene	ND	5									
1,2-Dichlorobenzene	ND	5									
1,2-Diphenylhydrazine	ND	5									
1,3-Dichlorobenzene	ND	5									
1,4-Dichlorobenzene	ND	5									
2,3,4,6-Tetrachlorophenol	ND	5									
2,4,5-Trichlorophenol	ND	5									
2,4,6-Trichlorophenol	ND	5									
2,4-Dichlorophenol	ND	5									
2,4-Dimethylphenol	ND	5									
2,4-Dinitrophenol	ND	10									
2,4-Dinitrotoluene	ND	5									
2,6-Dichlorophenol	ND	5									
2,6-Dinitrotoluene	ND	5									
2-Chloronaphthalene	ND	5									
2-Chlorophenol	ND	5									
2-Methylnaphthalene	ND	5									
2-Methylphenol	ND	5									
2-Nitroaniline	ND	5									
2-Nitrophenol	ND	5									
2-Picoline	ND	10									
3-Methylcholanthrene	ND	5									
3-Methylphenol	ND	5									
3-Nitroaniline	ND	5									
4,6-Dinitro-2-methylphenol	ND	5									
4-Aminobiphenyl	ND	50									
4-Bromophenyl phenyl ether	ND	5									
4-Chloro-3-methylphenol	ND	5									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories

Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Method Blank

4-Chlorophenyl phenyl ether	ND	5
4-Methylphenol	ND	5
4-Nitroaniline	ND	5
4-Nitrophenol	ND	5
7,12-Dimethylbenz(a)anthracene	ND	5
Acenaphthene	ND	5
Acenaphthylene	ND	5
Acetophenone	ND	5
Aniline	ND	5
Anthracene	ND	5
Benz(a)anthracene	ND	5
Benzo(a)pyrene	ND	5
Benzo(b)fluoranthene	ND	5
Benzo(g,h,i)perylene	ND	5
Benzo(k)fluoranthene	ND	5
Benzyl alcohol	ND	5
Bis(2-chloroethoxy)methane	ND	5
Bis(2-chloroethyl)ether	ND	5
Bis(2-chloroisopropyl)ether	ND	5
Bis(2-ethylhexyl)phthalate	ND	5
Butyl benzyl phthalate	ND	5
Chrysene	ND	5
Di-n-butyl phthalate	ND	5
Di-n-octyl phthalate	ND	5
Dibenz(a,h)anthracene	ND	5
Dibenzofuran	ND	5
Diethyl phthalate	ND	5
Dimethyl phthalate	ND	5
Ethyl methanesulfonate	ND	5
Fluoranthene	ND	5
Fluorene	ND	5
Hexachlorobenzene	ND	5
Hexachlorobutadiene	ND	5

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Method Blank

Hexachlorocyclopentadiene	ND	5
Hexachloroethane	ND	5
Indeno(1,2,3-cd)pyrene	ND	5
Isophorone	ND	5
Methyl methanesulfonate	ND	5
N-Nitroso-di-n-butylamine	ND	5
N-Nitroso-di-n-propylamine	ND	5
N-Nitrosodiphenylamine	ND	5
N-Nitrosopiperidine	ND	5
Naphthalene	ND	5
Nitrobenzene	ND	5
p-Dimethylaminoazobenzene	ND	5
Pentachlorobenzene	ND	5
Pentachloronitrobenzene	ND	5
Pentachlorophenol	ND	5
Phenacetin	ND	5
Phenanthrene	ND	5
Phenol	ND	5
Pyrene	ND	5

Sample ID: MB-591	Batch ID: 591	Test Code: Mercury	Units: mg/L	Analysis Date: 07/02/99	Prep Date: 07/01/99						
Client ID:	9906145	Run ID: MERC_990702B	SeqNo: 16386								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Hightlimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0002									

Qualifiers:

NID - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories
Work Order: 9906145
Project: 906097/PE/Yard Drums

QC SUMMARY REPORT Sample Duplicate

Sample ID: 9906143-01A DUP		Batch ID: 584		Test Code: ICPMET		Units: mg/L		Analysis Date: 06/30/99				Prep Date: 06/30/99	
Client ID: 9906145		Run ID: ICP_990630B		SeqNo: 16221									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Highlimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Arsenic	ND	0.005	0	0	0.0%	0	0	0	0.0%	20			
Barium	.007962	0.005	0	0	0.0%	0	0	0.007855	1.4%	20			
Cadmium	ND	0.002	0	0	0.0%	0	0	0	0.0%	20			
Chromium, 200.7	ND	0.005	0	0	0.0%	0	0	0	0.0%	20			
Copper, 200.7	ND	0.005	0	0	0.0%	0	0	0	0.0%	20			
Lead, 200.7	ND	0.005	0	0	0.0%	0	0	0	0.0%	20			
Magnesium	36.08	0.05	0	0	0.0%	0	0	36.59	1.4%	20			
Potassium	4.561	0.2	0	0	0.0%	0	0	4.51	1.1%	20			
Selenium	.02602	0.005	0	0	0.0%	0	0	0.02523	3.1%	20			
Silver	ND	0.005	0	0	0.0%	0	0	0	0.0%	20			
Zinc, 200.7	.0169	0.005	0	0	0.0%	0	0	0.01791	5.8%	20			
Sample ID: 9906145-01A DUP		Batch ID: 591		Test Code: Mercury		Units: mg/L		Analysis Date: 07/02/99		Prep Date: 07/01/99			
Client ID: 906097-01		9906145		Run ID: MERC_990702B		SeqNo: 16389							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Highlimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Mercury	ND	0.0002	0	0	0.0%	0	0	0	0.0%	20			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories
Work Order: 9906145
Project: 906097/PE/Yard Drums

QC SUMMARY REPORT Sample Matrix Spike

Sample ID: 9906145-01A MSD Batch ID: 05 8260 A-07/ Test Code: SW8260A Units: µg/L Analysis Date 07/02/99 Prep Date:
Client ID: 906097-01 9906145 Run ID: ANGSTR0M_990702B SeqNo: 16507

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	500	10	500	0	100.0%	0	234	0			
Benzene	507	10	500	0	101.4%	37	151	0			
Chlorobenzene	482	10	500	0	96.4%	37	160	0			
Toluene	483	10	500	0	96.6%	47	150	0			
Trichloroethene	511.5	10	500	0	102.3%	71	157	0			

Sample ID: 9906145-01A MSD Batch ID: 05 8260 A-07/ Test Code: SW8260A Units: µg/L Analysis Date 07/02/99 Prep Date:
Client ID: 906097-01 9906145 Run ID: ANGSTR0M_990702B SeqNo: 16508

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	542	10	500	0	108.4%	0	234	500	8.1%	20	
Benzene	519	10	500	0	103.8%	37	151	507	2.3%	20	
Chlorobenzene	481	10	500	0	96.2%	37	160	482	0.2%	20	
Toluene	472	10	500	0	94.4%	47	150	483	2.3%	20	
Trichloroethene	521.7	10	500	0	104.3%	71	157	511.5	2.0%	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories

Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9906143-01A MS Batch ID: 584 Test Code: ICPMET Units: mg/L Analysis Date 06/30/99 Prep Date: 06/30/99

Client ID: 9906145 Run ID: ICP_990630B SeqNo: 16222

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Highlimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.4905	0.005	0.5	0	98.1%	80	120	0			
Barium	.4669	0.005	0.5	0.007855	91.8%	80	120	0			
Cadmium	.4583	0.002	0.5	0	91.7%	80	120	0			
Chromium, 200.7	.4765	0.005	0.5	0	95.3%	90	110	0			
Copper, 200.7	.4808	0.005	0.5	0	96.2%	90	110	0			
Lead, 200.7	.47	0.005	0.5	0	94.0%	90	110	0			
Magnesium	40.37	0.05	5	36.59	75.4%	80	120	0			N
Potassium	11.61	0.2	5	4.51	142.0%	80	120	0			M
Selenium	.5064	0.005	0.5	0.02523	96.2%	80	120	0			
Silver	.5038	0.005	0.5	0	100.8%	80	120	0			
Zinc, 200.7	.4953	0.005	0.5	0.01791	95.5%	90	110	0			

Sample ID: 9906143-01A MSD Batch ID: 584 Test Code: ICPMET Units: mg/L Analysis Date 06/30/99 Prep Date: 06/30/99

Client ID: 9906145 Run ID: ICP_990630B SeqNo: 16223

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Highlimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.4914	0.005	0.5	0	98.3%	80	120	0.4905	0.2%	20	
Barium	.4696	0.005	0.5	0.007855	92.4%	80	120	0.4669	0.6%	20	
Cadmium	.4601	0.002	0.5	0	92.0%	80	120	0.4583	0.4%	20	
Chromium, 200.7	.4789	0.005	0.5	0	95.8%	90	110	0.4765	0.5%	20	
Copper, 200.7	.484	0.005	0.5	0	96.8%	90	110	0.4808	0.7%	20	
Lead, 200.7	.4749	0.005	0.5	0	95.0%	90	110	0.47	1.0%	20	
Magnesium	40.67	0.05	5	36.59	81.5%	80	120	40.37	0.7%	20	
Potassium	11.54	0.2	5	4.51	140.6%	80	120	11.61	0.6%	20	M
Selenium	.5141	0.005	0.5	0.02523	97.8%	80	120	0.5064	1.5%	20	
Silver	.5043	0.005	0.5	0	100.9%	80	120	0.5038	0.1%	20	
Zinc, 200.7	.4967	0.005	0.5	0.01791	95.8%	90	110	0.4953	0.3%	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories

Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9906145-01A MS		Batch ID: 591	Test Code: Mercury	Units: mg/L	Analysis Date: 07/02/99	Prep Date: 07/01/99					
Client ID:	906097-01	9906145	Run ID: MERC_990702B		SeqNo: 16390						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	.00206	0.0002	0.002	0	103.0%	75	125	0			

Sample ID: 9906145-01A MSD		Batch ID: 591	Test Code: Mercury	Units: mg/L	Analysis Date: 07/02/99	Prep Date: 07/01/99					
Client ID:	906097-01	9906145	Run ID: MERC_990702B		SeqNo: 16391						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	.00207	0.0002	0.002	0	103.5%	75	125	0.00206	0.5%	20	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories
Work Order: 9906145
Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS-584 **Batch ID:** 584 **Test Code:** ICPMET **Units:** mg/L **Analysis Date:** 06/30/99 **Prep Date:** 06/30/99
Client ID: 9906145 **Run ID:** ICP_990630B **SeqNo:** 16237

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	.4826	0.005	0.5	0	96.5%	80	120	0			
Barium	.4554	0.005	0.5	0	91.1%	80	120	0			
Cadmium	.4886	0.002	0.5	0	97.7%	80	120	0			
Chromium, 200.7	.4972	0.005	0.5	0	99.4%	90	110	0			
Copper, 200.7	.459	0.005	0.5	0	91.8%	90	110	0			
Lead, 200.7	.4921	0.005	0.5	0	98.4%	90	110	0			
Magnesium	4.74	0.05	5	0	94.8%	80	120	0			
Potassium	5.112	0.2	5	0	102.1%	80	120	0			
Selenium	.4725	0.005	0.5	0	94.5%	80	120	0			
Silver	.4909	0.005	0.5	0	98.2%	80	120	0			
Zinc, 200.7	.492	0.005	0.5	0	98.4%	90	110	0			

Sample ID: LCS-587 **Batch ID:** 587 **Test Code:** SW8270B **Units:** µg/L **Analysis Date:** 07/06/99 **Prep Date:** 07/01/99
Client ID: 9906145 **Run ID:** MANIFREDD_990706A **SeqNo:** 16600

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	28.7	5	50	0	57.4%	44	142	0			
1,4-Dichlorobenzene	27.55	5	50	0	55.1%	20	124	0			
2,4-Dinitrotoluene	33.85	5	50	0	67.7%	39	139	0			
2-Chlorophenol	53.8	5	100	0	53.8%	23	134	0			
4-Chloro-3-methylphenol	57.1	5	100	0	57.1%	22	147	0			
4-Nitrophenol	20	5	100	0	20.0%	1	132	0			
Acenaphthene	29.8	5	50	0	59.6%	47	145	0			
N-Nitrosodi-n-propylamine	30.1	5	50	0	60.2%	1	230	0			
Pentachlorophenol	55.56	5	100	0	55.6%	14	176	0			
Phenol	20.87	5	100	0	20.9%	5	112	0			
Pyrene	34.1	5	50	0	68.2%	52	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories

Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: LCS-D-587	Batch ID: 587	Test Code: SW8270B	Units: µg/L	Analysis Date: 07/06/99	Prep Date: 07/01/99						
Client ID: 9906145	Run ID: MANFREDD_990706A	SeqNo: 16601									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Hightlimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	30.6	5	50	0	61.2%	44	142	28.7	6.4%	28	
1,4-Dichlorobenzene	29.66	5	50	0	59.3%	20	124	27.55	7.4%	32	
2,4-Dinitrotoluene	34.7	5	50	0	69.4%	39	139	33.85	2.5%	22	
2-Chlorophenol	58	5	100	0	58.0%	23	134	53.8	7.5%	29	
4-Chloro-3-methylphenol	60.77	5	100	0	60.8%	22	147	57.1	6.2%	37	
4-Nitrophenol	19.85	5	100	0	19.9%	1	132	20	0.8%	47	
Acenaphthene	32.2	5	50	0	64.4%	47	145	29.8	7.7%	28	
N-Nitrosodi-n-propylamine	32.4	5	50	0	64.8%	1	230	30.1	7.4%	55	
Pentachlorophenol	56.1	5	100	0	56.1%	14	176	55.56	1.0%	49	
Phenol	22.2	5	100	0	22.2%	5	112	20.87	6.2%	23	
Pyrene	34.6	5	50	0	69.2%	52	115	34.1	1.5%	25	
Sample ID: LCS-591	Batch ID: 591	Test Code: Mercury	Units: mg/L	Analysis Date: 07/02/99	Prep Date: 07/01/99						
Client ID: 9906145	Run ID: MERC_990702B	SeqNo: 16387									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Hightlimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	.00091	0.0002	0.001	0	91.0%	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: 08-Jul-99

CLIENT: Pinnacle Laboratories
Work Order: 9906145
Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV	Batch ID: 05 8260 A-071	Test Code: SW8260A	Units: µg/L	Analysis Date: 07/02/99	Prep Date:						
Client ID:	9906145	Run ID: ANGSTROM_990702B	SeqNo: 16505								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Hightlimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	53.7	1	50	0	107.4%	80	120	0			
1,2-Dichloropropane	48.1	1	50	0	96.2%	80	120	0			
Chloroform	48	1	50	0	96.0%	80	120	0			
Ethylbenzene	45.7	1	50	0	91.4%	80	120	0			
Toluene	46.2	1	50	0	92.4%	80	120	0			
Vinyl chloride	43.4	2	50	0	86.8%	80	120	0			
4-Bromofluorobenzene	46.3	0	50	0	92.6%	86	115	0			
Dibromofluoromethane	51.25	0	50	0	102.5%	86	118	0			
Toluene-d8	47.5	0	50	0	95.0%	88	110	0			

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Pinnacle Laboratories
Work Order: 9906145

Project: 906097/PE/Yard Drums

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV Batch ID: 587 Test Code: SW8270B Units: µg/L Analysis Date: 07/06/99 Prep Date:
Client ID: 9906145 Run ID: MANFREDD_990706A SeqNo: 16599

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	49.1	5	50	0	98.2%	80	120	0			
2,4,6-Trichlorophenol	51.1	5	50	0	102.2%	80	120	0			
2,4-Dichlorophenol	49.7	5	50	0	99.4%	80	120	0			
2-Nitrophenol	50	5	50	0	100.0%	80	120	0			
4-Chloro-3-methylphenol	49.7	5	50	0	99.4%	80	120	0			
Acenaphthene	47.8	5	50	0	95.6%	80	120	0			
Benzo(a)pyrene	50.5	5	50	0	101.0%	80	120	0			
Di-n-octyl phthalate	52.5	5	50	0	105.0%	80	120	0			
Fluoranthene	49.8	5	50	0	99.6%	80	120	0			
Hexachlorobutadiene	48.4	5	50	0	96.8%	80	120	0			
N-Nitrosodiphenylamine	49.3	5	50	0	98.6%	80	120	0			
Pentachlorophenol	41.3	5	50	0	82.6%	80	120	0			
Phenol	49.7	5	50	0	99.4%	80	120	0			
2,4,6-Tribromophenol	52.5	5	50	0	105.0%	80	120	0			
2-Fluorobiphenyl	48.9	5	50	0	97.8%	80	120	0			
2-Fluorophenol	50.6	5	50	0	101.2%	80	120	0			
4-Terphenyl-d14	48.85	5	50	0	97.7%	80	120	0			
Nitrobenzene-d5	49.3	5	50	0	98.6%	80	120	0			
Phenol-d5	49.77	5	50	0	99.5%	80	120	0			
Sample ID: ICV	Batch ID: 591	Test Code: Mercury	Units: mg/L	Analysis Date: 07/02/99	Prep Date: 07/01/99						
Client ID:	9906145	Run ID: MERC_990702B	SeqNo: 16396								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	.00208	0.0002	0.002	0	104.0%	90	110	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: 07-Jul-99

CLIENT: Pinnacle Laboratories
Work Order: 9906145
Project: 906097/PE/Yard Drums

QC SUMMARY REPORT Minerals ICP for ICP

Sample ID: ICYH	Batch ID: 584	Test Code: ICPMET	Units: mg/L	Analysis Date: 06/30/99	Prep Date:
Client ID:	9906145	Run ID: ICP_9906308		SeqNo: 16235	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium	24.36	0.05	25	0	97.4% 90 110 0
Magnesium	23.68	0.05	25	0	94.7% 90 110 0
Sodium	4.825	0.2	5	0	96.5% 90 110 0

Sample ID: ICYLOW	Batch ID: 584	Test Code: ICPMET	Units: mg/L	Analysis Date: 06/30/99	Prep Date:
Client ID:	9906145	Run ID: ICP_9906308		SeqNo: 16236	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	.5063	0.005	0.5	0	101.3% 90 110 0
Barium	.4966	0.005	0.5	0	99.3% 90 110 0
Cadmium	.5001	0.002	0.5	0	100.0% 90 110 0
Chromium, 200.7	.5064	0.005	0.5	0	101.3% 95 105 0
Copper, 200.7	.5068	0.005	0.5	0	101.4% 95 105 0
Lead, 200.7	.5069	0.005	0.5	0	101.4% 95 105 0
Potassium	5.165	0.2	5	0	103.3% 90 110 0
Selenium	.5029	0.005	0.5	0	100.6% 90 110 0
Silver	.503	0.005	0.5	0	100.6% 90 110 0
Zinc, 200.7	.4991	0.005	0.5	0	99.8% 95 105 0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 6/28 Page: 1 of 1 9906145

Network Project Manager: Kimberly D. McNeill

Pinnacle Laboratories, Inc.

2709-D Pan American Freeway, NE

Albuquerque, New Mexico 87107

(505) 344-3777 Fax (505) 344-4413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL	TOX	TOC	Gen Chemistry	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8080)	8270 BY GC/MS TCLP	PNA (8310)	8240 (TCLP 1311) ZHE	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
906097-01	6/25	1000	NAC	01		X											X		X							

PROJECT INFORMATION

SAMPLE RECEIPT

SAMPLES SENT TO:

RELINQUISHED BY:

RELINQUISHED BY:

PROJECT #: 906097

Total Number of Containers

PENSACOLA - STL-FL

Signature: Shirley Ann Time: 1700

Signature: _____ Time: _____

PROJ. NAME: PE

Chain of Custody Seals

PORTLAND - ESL-OR

Signature: _____ Time: _____

Signature: _____ Time: _____

QC LEVEL: STD IV

Received Intact?

STL - CT

Signature: _____ Time: _____

Signature: _____ Time: _____

QC REQUIRED: MS MSD BLANK

Received Good Cond./Cold

STL - NEW JERSEY

Signature: _____ Time: _____

Signature: _____ Time: _____

TAT: STANDARD RUSH!!

LAB NUMBER:

N. CREEK

Signature: _____ Time: _____

Signature: _____ Time: _____

DUE DATE: 7/4

COMMENTS:

SEQUOIA

Signature: _____ Time: _____

Signature: _____ Time: _____

RUSH SURCHARGE: -

COMMENTS:

SEQUOIA

Signature: _____ Time: _____

Signature: _____ Time: _____

CLIENT DISCOUNT: -

COMMENTS:

SEQUOIA

Signature: _____ Time: _____

Signature: _____ Time: _____

SPECIAL CERTIFICATION

COMMENTS:

SEQUOIA

Signature: _____ Time: _____

Signature: _____ Time: _____

RECEIVED: VES (M)

COMMENTS:

SEQUOIA

Signature: _____ Time: _____

Signature: _____ Time: _____

Chain of Custody Record

COC Serial No. C 2365

906097

[illegible]

Relinquished by:

Received By:

Signature	Date	Time	Signature	Date	Time
<i>CELINAL</i>	<i>6/25/99</i>	<i>10:10 AM</i>	<i>Greyhound Lines</i>	<i>6/25/99</i>	<i>1615</i>
Samples Iced: ☒ Yes ☐ No Preservatives (ONLY for Water Samples) ☐ Cyanide Sodium hydroxide (NaOH) ☐ Volatile Organic Analysis Hydrochloric acid (HCl) ☐ Metals Nitric acid (HNO₃) ☐ TPH (418.1) Sulfuric acid (H₂SO₄) ☐ Other (Specify) _____ ☐ Other (Specify) _____					
Carrier: <i>Greyhound Lines</i> Shipping and Lab Notes: <i>Please return cooler to above address</i> <i>CELINAL TAT</i> <i>Contact: Carolyn Wahli</i>			Airbill No. <i>1606651420</i>		

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

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

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JUL 01 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/95

Submit Origin
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 99078

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Burlington</u>
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site <u>Arch Rock</u>
2. Management Facility Destination <u>TIERRA LANDFORM</u>	6. Transporter <u>Richards Resources</u>
3. Address of Facility Operator <u>420 CR 3100, Artesia, NM</u>	8. State <u>NM</u>
7. Location of Material (Street Address or ULSTR) <u>→ SW 514, T32N, R11W</u>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Lube 12-7
Non exemp material from spill of used oil
Process has not changed since analysis 11/22/98

RECEIVED
JUN 25 1999
OIL CON. DIV.
DIST. 3

See MSDS on new lube oil spill

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

SIGNATURE: Phillip C Nobis TITLE: President DATE: 6/22/99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Phillip C Nobis TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Fawcett TITLE: Geologist DATE: 6/25/99
APPROVED BY: Monty G. Fawcett TITLE: Environmental Geologist DATE: 7/1/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Arch Rock	Location of the Waste (Street address /or ULSTR): Arch Rock Unit: SW Section: 14 Township: 32N Range: 11W
4. Source and Description of Waste: Soil contaminated as a result of a waste oil spill. Analysis has been faxed to Tierra 6/23/99. Approval 6/24/99	

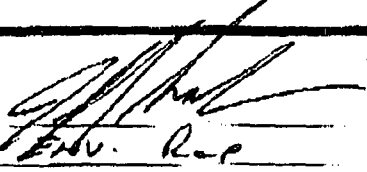
I, Jeff Schoenbacher representative for:
Burlington Resources do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

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

Name (Original Signature): 

Title: Pipeline Specialist

Date: Thursday, June 24, 1999



Inter-Mountain Laboratories, Inc.

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

2506 West Main Street, Farmington, NM 87401

WASTE OIL CHARACTERIZATION

Client: **Burlington Resources**
Project: **BR-Compressor Stations**
Sample ID: **Arch Rock Compressor**
Laboratory ID: **0398G06962**
Sample Matrix: **Oil**
Condition: **Intact**

Date Reported: **12/22/98**
Date Analyzed: **12/14/98**
Date Sampled: **11/30/98**
Date Received: **12/03/98**

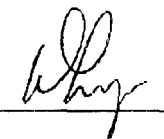
Analyte	Result	Units	Maximum Allowable Level
Arsenic	<3.0	ppm	5
Cadmium	<0.20	ppm	2
Chromium	<0.5	ppm	10
Lead	<2.50	ppm	100
Flash Point	>140	°F	must exceed 100
Total Organic Halogens	<1000	ppm	1000-4000

ND - Analyte not detected at stated detection level.

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 III, December, 1996.

Annual Book of ASTM Standards, Vol. 05.01, Method D808-81, 1985.
Annual Book of ASTM Standards, Vol. 15.04, Method D93-80, 1985.

Comments:Reported by: Reviewed by: 

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

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

Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

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JUL 01 1999

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99077 C45

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Burlington</u>
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site <u>Arch Rock</u>
2. Management Facility Destination <u>Tierra Crouch Mesa</u>	6. Transporter
3. Address of Facility Operator <u>420 CR 3100, Aztec</u>	8. State <u>NM</u>
7. Location of Material (Street Address or ULSTR) <u>SW 514, TERRA CROUCH MESA</u>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Soil Contaminated by LUBE OIL SPILL < LUBE oil Not Used
MSDS Attached

RECEIVED
JUN 25 1999

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: Philip C. Nobis TITLE: President DATE: 6/22/99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Philip C. Nobis TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Derry G. Fent TITLE: Geologist DATE: 6/25/99

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 7/1/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Burlington Resources 3535 East 30 th Street Farmington NM 87401	2. Destination Name: Tierra
3. Originating Site (name): Arch Rock Unit: SW	Location of the Waste (Street address /or ULSTR): Arch Rock Section: 14 Township: 32N Range: 11W
4. Source and Description of Waste: Soil contaminated as a result of a lube oil spill	

I, Bill McGaha 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 the 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):
Certificate of Waste Status
Waste Manifest

Name (Original Signature): William R McGaha

Title: Pipeline Specialist

Date: Tuesday, June 22, 1999

Certificate of Waste Status

Non-Exempt Waste Material

Certificate Number: 512

Date 6/22/99

As Required by New Mexico Oil Conservation Division

Company/Generator: Arch Rock

Source: Soil contaminated as a result of a lube oil spill

Description: Oil Contaminated Soil

Generating Site: Arch Rock

Disposal Location: Tierra

Transportation Company: Richards' Resources

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt 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 261 to verify the material is non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subpart C and D, has not 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. Furthermore, the process wastes have been surveyed for Naturally Occurring Radioactive Material (NORM) and do not exceed the concentrations listed in 20 NMAC 3.1 Subpart 1403 C. And D.

Company Name: Burlington Resources

Representative: Bill McGaha

Address: 3535 East 30th Street

City: Farmington

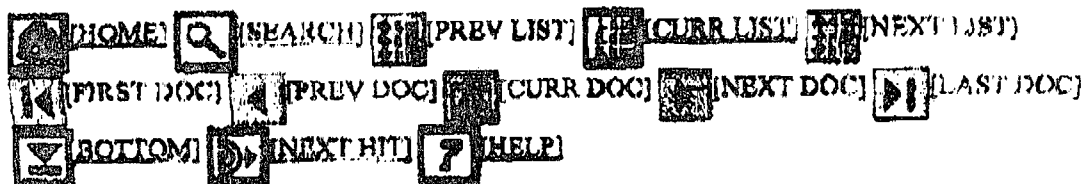
State: NM

Zip: 87401

Title: Pipeline Specialist

Signature: William R. McGaha Date: 6-22-99

Comments:



MOBIL PEGASUS 805

602488-00

1. PRODUCT AND COMPANY IDENTIFICATION

APPROVAL DATE: 09/22/98

PRODUCT NAME: MOBIL PEGASUS 805
SUPPLIER: MOBIL OIL CORP.
NORTH AMERICA MARKETING AND REFINING
1225 GALLOWAY RD.
FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 800-737-4611
Product and MSDS Information: 800-662-4535 609-324-4644
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS, PET. HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

3. HAZARD IDENTIFICATION

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

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT HAZ No. - NA

4. FIRST AID MEASURES

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

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

5. FIRE FIGHTING MEASURES

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

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

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire

VISCOSITY AT 100 C, cSt: 13.6

POUR POINT C(P): -12(10)

FREEZING POINT C(P): NR

VOLATILE ORGANIC COMPOUND: NR

NA-NOT APPLICABLE NE-NOT ESTABLISHED DE-DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

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

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating (Primary Irritation Index: greater than 0.5 but less than 1). ---Based on testing of similar products and/or the components.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

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

---CHRONIC TOXICOLOGY (SUMMARY)---

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

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

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

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

Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.
RID/ADR: NOT REGULATED BY RID/ADR.
IMO: NOT REGULATED BY IMO.
IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

EU Labeling:

Symbol: * EU labeling not required.

Risk Phrase(s): N.

NA

Safety Phrase(s): Not applicable.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III.

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under

SARA (312) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
ZINC (ELEMENTAL ANALYSIS) (0.024)	7440-66-6	12
PHOSPHORODITHIOIC ACID, O,O-DI	68549-42-3	23
C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (8DDP) (0.336)		

--- REGULATORY LISTS SEARCHED ---

1-ACGHN ALL	6-IAEC 1	11-TSCA 4	16-CA P65 CARC	21-1A RTK
2-ACGHN A1	7-IAEC 2A	12-TSCA 5a2	17-CA P65 REPRO	22-MI 293
3-ACGHN A2	8-IAEC 2H	13-TSCA 5b	18-CA RTK	23-MH R/K
4-NTP CARC	9-OSHA CARC	14-TSCA 6	19-FL RTK	24-MJ RTK
5-NTP SUS	10-OSHA 2	15-TSCA 12b	20-IL RTK	25-PA RTK
				26-RY RTK

Code key: CARC=Carcinogen; SUS=suspected Carcinogen; REPRO-Reproductive

16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOST PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBs.

Please call the Customer Response Center on 800-662-4835 for formulation disclosure.

For Internal Use Only: MHC: 00 00 NA 10 10, MPPRC: A, TRM: 602466-00.
GLIS: 400795, CMCH97: 97D916, REQ: US - MARKETING, SAFE USE: L

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Mobil assumes no responsibility for accuracy of information unless the document is the most current available from an official Mobil distribution system. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

District I - (505) 393-6161
P. O. Box 1982
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
Artesia, NM 87410
District IV - (505) 827-7131

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

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ <i>D. Foust</i>	4. Generator <i>FARMINGTON Chemical Dist.</i>
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site <i>3911 MONROE FARMINGTON NM</i>
2. Management Facility Destination <i>TIEBBA CROUCH MESA</i>	6. Transporter <i>CDI</i>
3. Address of Facility Operator <i>420 CR Rd 3100</i>	8. State <i>NM</i>
7. Location of Material (Street Address or ULSTR) <i>420 CR 3100</i>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Sodium Bisulfate, EXPIRED

RECEIVED
JUN 17 1999
OIL CON. DIV.
DIST. 3

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

SIGNATURE: *Philip C Nobis* TITLE: *President* DATE: *6-8-98*
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: *Philip C Nobis* TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: *Denny G. Foust* TITLE: *Geologist* DATE: *6/21/99*
APPROVED BY: *Martinez J. Fish* TITLE: *Environmental Geologist* DATE: *6-23-99*

Post-It® Fax Note 7671		Date	# of pages
To	Jerry	From	Dave
Co./Dept	CDI	Co./Dept	Tierra Environmental
Phone #	327-0274	Phone #	334-8874
Fax #	327-6406	Fax #	334-9024

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Farmington Chem. Dist. 3911 Monroe Rd Farmington N.H. 02401	2. Destination Name: TIERRA Environmental
3. Originating Site (name): F.C.D. Chemical Dist. L.H.C. Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): 3911 Monroe Rd. Farmington N.H.
4. Source and Description of Waste Sodium Bisulfite - water water treatment product, Thio sulfate -	

I, Jerry Hughes, representative for:
 (Print Name)

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

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

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

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

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

Name (Original Signature):

Jerry Hughes

Title:

Operations Manager

Date:

6-8-99



International
Lubrication and
Fuel Consultants Inc.

Creating the standards for industry

RECEIVED
JUN 21 1999
OIL CON. DIV.
DIST. 3

P.O. Box 15212
Rio Rancho, NM 87174
(505) 892-1666 (800) 237-4532
Fax (505) 892-9601

ILFC Laboratory Report

for

Tierra Environmental Co., Inc.

P.O. Drawer 15250
Farmington

NM

Project No: Not Given

Project Location: Not Given

Sampler:

Date Sampled: 10/8/97

Date Received: 10/10/97

Date Reported: 10/31/1997

Report #: 97152

Laboratory Manager

Laboratory Report

Sample Date: 10/8/97 Tierra Environmental Co., Inc.

CAI-

Registered Date/Time: 10/16/1997 02:25:44 PM Not Given

Batch # 97152

Soil

ILFC # 10704

TCLP Metals analysis by ICP: EPA 6010

Analyte	MDL	Concentration	Limit
Arsenic	0.5 mg/l	<0.5	5.0
Barium	0.2 mg/l	<0.2	100
Cadmium	0.1 mg/l	<0.1	1.0
Chromium	0.2 mg/l	<0.2	5.0
Lead	0.2 mg/l	<0.2	5.0
Selenium	0.5 mg/l	<0.5	1.0
Silver	0.2 mg/l	<0.2	5.0
Mercury	0.001 mg/L	<0.001	0.2
Analyst	Robert Furlong		
Date Analyzed	10/17/97		

TCLP Volatile Organics: EPA Method 8260

Analyte	MDL (mg/L)	Concentration	Limit (mg/L)
Benzene	0.005	<0.005	0.5
Carbon Tetrachloride	0.005	<0.005	0.5
Chlorobenzene	0.005	<0.005	100.0
Chloroform	0.005	<0.005	6.0
1,4-Dichlorobenzene	0.005	<0.005	7.5
1,2-Dichloroethane	0.005	<0.005	0.5
1,1-Dichloroethylene	0.005	<0.005	0.7
Methyl Ethyl Ketone	0.005	<0.005	200.0
Tetrachloroethylene	0.005	<0.005	0.7
Trichloroethylene	0.005	<0.005	0.5
Vinyl Chloride	0.005	<0.005	0.2
Methylene Chloride	0.005	<0.005	n/a
Acetone	0.005	<0.005	n/a

TCLP Base Nuetrals: EPA Method 8270

Analyte	MDL (mg/L)	Concentration	Limit (mg/L)
1,4-Dichlorobenzene	0.005	0.041	7.5
2,4-Dinitrotoluene	0.005	<0.005	0.13
Hexachlorobenzene	0.005	<0.005	0.13
Hexachlorobutadiene	0.005	<0.005	0.5
Hexachloroethane	0.005	<0.005	3.0
Nitrobenzene	0.005	<0.005	2.0
Pyridine	0.005	<0.005	5.0

TCLP Acids: EPA Method 8270

Analyte	MDL (mg/L)	Concentration	Limit (mg/L)
o-Cresol	0.005	<0.005	200
m,p-Cresol	0.005	<0.005	200
Pentachlorophenol	0.005	<0.005	200
2,4,5-Trichlorophenol	0.005	<0.005	400
2,4,6-Trichlorophenol	0.005	<0.005	2.0

ILFC Laboratory Report

Sample Date: 10/8/97

Tierra Environmental Co., Inc.

Registered Date/Time: 10/16/1997 02:25:44 PM

Not Given

CAI

Batch # 97152

Soil

ILFC # 10704

Corrosivity

pH	Date Analyzed	Analyst
2.1	10/17/97	Robert Furlong

Ignitability

IGNT (Celsius)

>60C

Reactive Cyanide: Method 9010

Reactive CN (mg/kg)

<0.025

Reactive Sulfide: Method 9030

Reactive SU (mg/kg)

<20

End of Analyses

ENVIRONMENTAL
COMPANY INC.

DRAWER 15250 FARMINGTON, NM 87401.

505-334-8894

Date: 10-10-97

Page 1 of 1

97152

Base Order No.:		Job No.		Name		Title	
Name: Tim Nobis				Company			
Company: Tierra Environmental		Dept.		Mailing Address			
Address: P.O. Drawer 15250				City, State, Zip			
City, State, Zip: Farmington NM 87401				Telephone No.		Telefax No.	
Shipping Location:				Analysis Requested			
Client: Tim Nobis				TEL # w/ H.S.P. Cooperativity Research Hydrob. H. 10-10-97			
Number of Containers		RESULTS TO		Name		Title	
1				Company			
DATE		SAMPLE TIME		MATRIX		PRES.	
10-10-97		1130		Soil			
Date Time		Date Time		Date Time		Date Time	
10/10/97 1:00 PM		10/10/97 1:00 PM		10/10/97 1:00 PM		10/10/97 1:00 PM	
Received by: [Signature]		Received by: [Signature]		Received by: [Signature]		Received by: [Signature]	
Date Time		Date Time		Date Time		Date Time	
10/10/97 1:00 PM		10/10/97 1:00 PM		10/10/97 1:00 PM		10/10/97 1:00 PM	
10 Working Days		24-48 Hours		Special Instructions:			
Rush							
Authorized by: [Signature]		Date		Date		Date	
10/10/97		10/10/97		10/10/97		10/10/97	
(Client Signature Must Accompany Request)							

MATERIAL SAFETY DATA SHEET Pot Ash

POTASH
CAUTION - MAY CAUSE SKIN AND
EYE IRRITATION

MOAB SALT, Inc.
P.O. Box 1208
Moab, Utah (801) 259-771

TEXASGULF Inc.
3101 Glenwood Avenue
P.O. Box 30321
Raleigh, N.C. 27622-0321 (919) 881-2700

TRANSPORTATION EMERGENCIES: CALL (800) 424-9300 (CHEMTREC)
HEALTH EMERGENICES: CONTACT YOUR LOCAL POISON CENTER

PRODUCT INFORMATION

CHEMICAL NAME AND SYNONYMS
POTASSIUM CHLORIDE

TRADE NAME AND SYNONYMS
POTASH, POTASSIUM MURIATE,
MURIATE OF POTASH

CHEMICAL FAMILY
INORGANIC SALT

FORMULA
KCl

CAS NUMBER
7447-40-7

Listed in: _____ OSHA SUBPART Z _____ ACGIH TLV LISTS; _____ NTP LIST;
_____ IARC MONOGRAPH; _____ X _____ NONE OF THE ABOVE

TYPICAL COMPOSITION
POTASSIUM CHLORIDE
SODIUM CHLORIDE

%
96.8
2.8 (CAS #7647-14-5)

PHYSICAL DATA

BOILING POINT (°F)
VAPOR PRESSURE (mm Hg.)
VAPOR DENSITY (AIR-1)
SOLUBILITY IN WATER
APPEARANCE AND ODOR
pH

Sublimes @ 2732
N/A
N/A
25% @ 68°F
White crystals or granules, odorless
7 ± 1%

MELTING POINT (°F) 1423
SPECIFIC GRAVITY (H2O-1) 1.98
PERCENT VOLATILE N/A
EVAPORATION RATE N/A
OTHER

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (METHOD USED)
EXTINGUISHING MEDIA
SPECIAL FIRE FIGHTING PROCEDURES
UNUSUAL FIRE AND EXPLOSION HAZARDS

NOT COMBUSTIBLE
N/A
NONE
NONE

FLAMMABLE LIMITS LEL N/A
UEL N/A

HEALTH INFORMATION

THRESHOLD LIMIT VALUE:

NONE ESTABLISHED. OSHA total nuisance dust limit of 15 mg/m³ and a respirable fraction of 5 mg/m³. The ACGIH nuisance dust TLV of 10 mg/m³ for the 8 hour time weighted average applies.

(N/A = Not Applicable)

March 6, 1991

EMERGENCY AND FIRST AID PROCEDURES

EYE-Flush thoroughly with water. Seek medical attention if irritation persists.

SKIN-Wash thoroughly with soap and water.

INHALATION-Remove to fresh air. If discomfort continues, seek medical attention.

INGESTION-If person is conscious, give large amounts of water to drink and induce vomiting. Seek medical attention.

REACTIVITY DATA

STABILITY



UNSTABLE
STABLE

CONDITIONS TO AVOID

NONE

INCOMPATIBILITY (Materials to Avoid) Strong acids-can cause release of toxic chloride gasses.

HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS

POLYMERIZATION



May Occur
Will Not Occur

CONDITIONS TO AVOID

NONE

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Prevent large quantities from contact with water ways or vegetation.

WASTE DISPOSAL METHOD If uncontaminated, recover and reuse product. Consult State or Federal environmental regulatory agencies for acceptable disposal procedures and location.

PERSONAL PROTECTION INFORMATION

EYE-Tight fitting goggles should be worn in dusty areas.

SKIN-if irritation occurs, long sleeves and impervious gloves should be worn.

RESPIRATORY-A NIOSH-approved dust respirator should be used when exposure exceeds the OSHA standard of 15 mg/m³.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING NONE

OTHER PRECAUTIONS Potash is mildly corrosive to steel when wet.

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

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

RECEIVED
JUN 4 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Original 2/92
Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

99059

1. RCRA Exempt: ☐ Non-Exempt: ☒ <u>5-17-99</u>	4. Generator <u>Compressor System Inc</u>
Verbal Approval Received: <u>5-17-99</u> Yes ☒ No ☐ <u>D. Foust</u>	5. Originating Site <u>Phillips PetCo 30-5 #206</u>
2. Management Facility Destination <u>Tierra Environmental Land Farm</u>	6. Transporter <u>Gurule Trucking</u>
3. Address of Facility Operator <u>420 C.R. 3100 Aztec</u>	8. State <u>New Mexico 87401</u>
7. Location of Material (Street Address or ULSTR) <u>518-Tw 30-R5W</u>	<u>Rio-Arriba co, NM.</u>
9. Circle One: ☒ A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☐ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

New Compressor Oil out of unit

RECEIVED
MAY 24 1999
OIL CON. DIV.
DIST. 3

I allowed this into facility but it is isolated. They physically tried to take this to Key and sent it before all paperwork was in place.

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

SIGNATURE: David Borawitz TITLE: Environmental Specialist DATE: 5-17-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: David Borawitz TELEPHONE NO. 334-8894

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/2/99
APPROVED BY: Martyn G. Kelly TITLE: Environmental Geologist DATE: 6/4/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Compressor Systems Inc PO Box 2144 Farmington NM 87401	2. Destination Name: TIERRA ENVIRO Company Inc
3. Originating Site (name): Phillips Petco 30-5 #206 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): Sec 18 T1W30 R5W RIO ARriba City NM 30-5 #206 Unit 4714
4. Source and Description of Waste New Compressor Oil out of unit when gauge broke off - unit caught oil till Env rail filled to capacity	

I, DAVID ALGEO representative for:
(Print Name)
(CSI) Compressor Systems 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):

Title:

Date:

Operator's Mark
5-13-99

MAY-13-1999 16:09

COASTAL CHEMICAL

505 327 9302 P.01

MATERIAL SAFETY**DATA SHEET****SUMMIT INDUSTRIAL PRODUCTS, INC.**

9010 CR 2120, Tyler, TX 75707

(903) 534-8021

DATE: 03/17/97

REVISED: 03/17/97

SUPERSEDES: 07/19/96

PRODUCT IDENTIFICATION

Trade Name: NGP-100, NGP-150, NGP-220
Chief Constituent: Petroleum Hydrocarbon
Hazardous Ingredients/OSHA: None
Carcinogenic Ingredients/OSHA/NTP/IARC: None
Ingredients Regulated by SARA Title 3, Section 313: None

II. WARNING STATEMENTS

None

III. PHYSICAL AND CHEMICAL DATA

Appearance and Odor: Bright & Clear, mild Odor
Specific Gravity: Less than 1.0
Boiling Point: Not determined
Vapor Pressure: Not determined

IV. FIRE PROTECTION

Flash Point: >490°F (COC)
Extinguishing Media: Water spray, dry chemical, foam or CO2
Special Firefighting Procedure: Use water to cool fire exposed containers and disperse the vapors if not ignited.
Unusual Fire Hazard: None

V. REACTIVITY DATA

Thermal Stability: Stable
Materials to Avoid: Strong oxidizers
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Oxides of carbon, nitrogen, and sulphur at combustion temperatures.

VI. HEALTH HAZARD DATA

Exposure Limits: Not established for product
Effects of Overexposure: Possible minimal irritation

VII. PHYSIOLOGICAL EFFECTS SUMMARY

ACUTE:
Eyes: Believed to be minimally irritating
Skin: Believed to be minimally irritating
Respiratory System: Believed to be minimally irritating
CHRONIC: Not determined
OTHER: Not applicable

Post-It® Fax Note	7671	Date	5-13	# of pages	2
To	DAVID	From	Georgianna		
Co./Dept.	CSI	Co.	Coastal		
Phone #	INFO ON	Phone #			
Fax #	MSDS	Fax #			

MAY-13-1999 16:09

COASTAL CHEMICAL

505 327 9302 P.02

DATE: 03/17/97

REVISED: 03/17/97

SUMMIT:NGP-100, NGP-150, NGP-220

VIII. PRECAUTIONS FOR SAFE HANDLING

For general personal hygiene, wash hands thoroughly after handling material. Avoid contact with skin and eyes.

IX. PROTECTION AND CONTROL MEASURES

Protective Equipment: Goggles or face shield optional
Respiratory Protection: None required under normal exposure
Ventilation: Well ventilated

X. EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Flush eyes with plenty of water.
Skin Contact: Wash with soap and water.
Inhalation: Remove from contaminated area.
Ingestion: First Aid normally not required. If uncomfortable, call physician.

XI. NOTES**HAZARD RATING INFORMATION**

	NPCA/HMIS	NFPA	KEY	
Health	1	1	4 = Severe	1 = Slight
Flammability	1	1	3 = Serious	0 = Minimal
Reactivity	0	0	2 = Moderate	

XII. SPILL AND DISPOSAL PROCEDURES

Environmental Impact: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard Toll Free Number (800) 424-8802. In case of accident or road spill, notify Chemtrec (800) 424-9300.

Procedures If Material is Released or Spilled: Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

Waste Management: Dissolve waste in a solvent and dispose by supervised incineration in compliance with applicable laws and regulations.

Toxic Substance Inventory Control Act: All components are included on the TSCA Inventory and are in compliance with the TSCA.

FOR ADDITIONAL INFORMATION CONTACT:

SUMMIT INDUSTRIAL PRODUCTS, INC.
P. O. Box 131359
Tyler, Texas 75713
(903) 534-8021

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

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

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

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env. JN: 97057-21

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>E.P.F.S.</u>
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site <u>Chaco Plant</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>Sec 16, T26N, R12W SJL. NW</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

1600 oil contaminated soil

RECEIVED
DEC 20 1999
Environmental Bureau
Oil Conservation Division

RECEIVED
DEC 15 1999
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 TITLE: Landfarm Manager DATE: 12-15-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny L. Feunt TITLE: Geologist DATE: 12/16/99
APPROVED BY: Roy L. Brown TITLE: Env Bureau Chief DATE: 12/20/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Chaco Plant	Location of Waste(Street address &/or ULSTR): Section 16, T28N, R12W, San Juan Co., NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste Soil contaminated with lubricating oil	

I, David Bays representative for:
(Print Name)

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

 EXEMPT Oilfield waste 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-hazardous waste defined above.

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

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

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: December 15, 1989

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 25, 1999

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

Project No.: 97057
Job No.: 705717

Dear John,

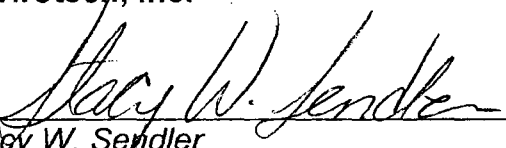
Enclosed are the analytical results for the sample collected from the location designated as "Chaco Plant". One soil sample was collected by Envirotech personnel on 09/30/99, and received by the Envirotech laboratory on 09/30/99 for Hazardous Waste Characterization analysis (TCLP Volatiles, Semi-volatiles, Trace Metals, Ignitability, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 7409 and assigned Laboratory No. G132 (SS-1) for tracking purposes.

The sample was extracted on 10/01/99 and analyzed 10/01/99 through 10/22/99 using USEPA or equivalent methods.

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

Respectfully submitted,
Envirotech, Inc.


Stacy W. Sandler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

97057-17.lb1/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	10-01-99
Lab ID#:	G132	Date Sampled:	09-30-99
Sample Matrix:	Soil	Date Received:	09-30-99
Preservative:	Cool	Date Analyzed:	10-01-99
Condition:	Cool and Intact	Chain of Custody:	7409

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

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 9.22

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
-----------	---------------------------

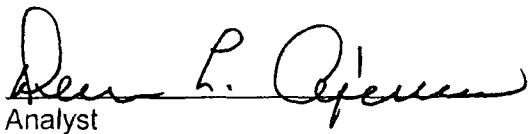
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
---------------	---

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

Comments: Chaco Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	10-06-99
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-01-99
Preservative:	Cool	Date Analyzed:	10-05-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0028	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0182	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

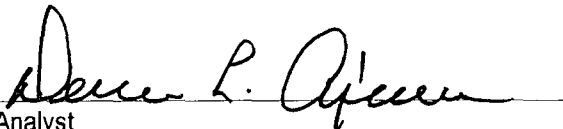
ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: Chaco Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	10-08-99
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-01-99
Preservative:	Cool	Date Analyzed:	10-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

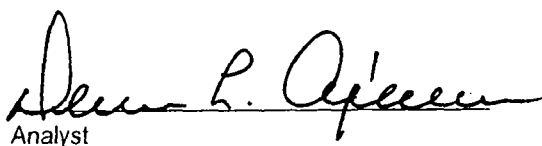
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

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

Comments: **Chaco Plant.**


Analyst


Review

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 #:	705717
Sample ID:	SS - 1	Date Reported:	10-08-99
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-01-99
Preservative:	Cool	Date Analyzed:	10-07-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

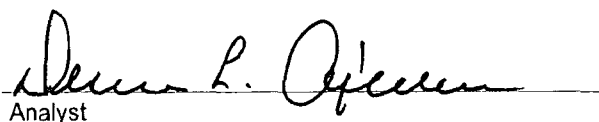
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

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

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

Comments: Chaco Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	11-05-99
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Analyzed:	11-04-99
Preservative:	Cool	Date Extracted:	10-01-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.076	0.001	5.0
Barium	1.07	0.001	21
Cadmium	0.013	0.001	0.11
Chromium	0.002	0.001	0.60
Lead	0.460	0.001	0.75
Mercury	ND	0.0005	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

ND - Parameter not detected at the stated detection limit.

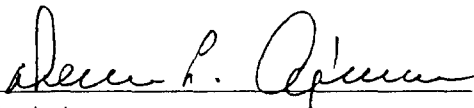
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

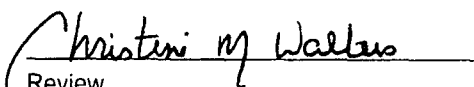
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

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

Comments: Chaco Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	10-06-99
Laboratory Number:	10-05-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-05-99
Condition:	N/A	Analysis Requested:	TCLP

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

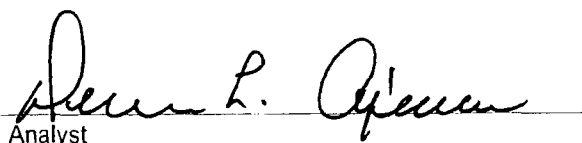
ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: QA/QC for sample G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	10-06-99
Laboratory Number:	10-01-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-05-99
Condition:	N/A	Date Extracted:	10-01-99
		Analysis Requested:	TCLP

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

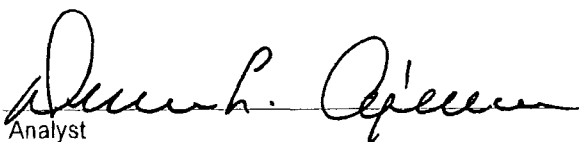
ND - Parameter not detected at the stated detection limit.

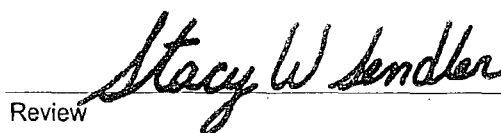
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

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

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

Comments: QA/QC for sample G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

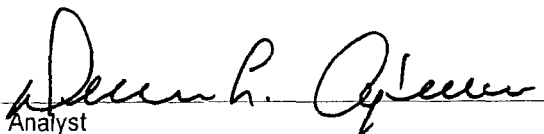
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-06-99
Laboratory Number:	G132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-05-99
Condition:	N/A	Date Extracted:	10-01-99

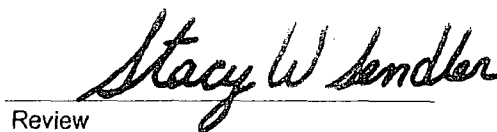
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0028	0.0029	0.0001	3.7%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0182	0.0177	0.0001	2.8%
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 G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: G132
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

Project #: N/A
Date Reported: 10-06-99
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 10-05-99
Date Extracted: 10-01-99

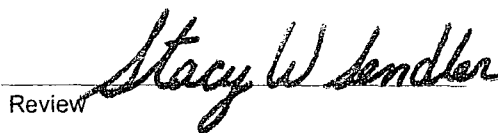
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0028	0.050	0.0523	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0182	0.050	0.0680	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G132.


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:	10-08-99
Laboratory Number:	10-07-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-07-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

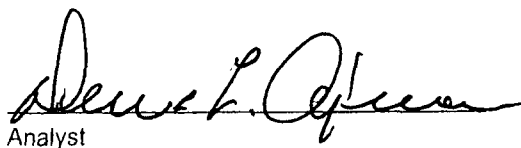
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

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

Comments: QA/QC for sample G132.


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:	10-08-99
Laboratory Number:	10-01-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-01-99
Condition:	Cool & Intact	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

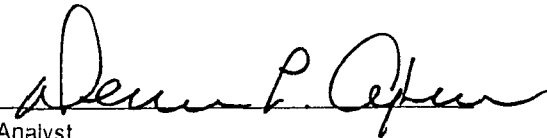
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

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

Comments: QA/QC for sample G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-08-99
Laboratory Number:	G132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

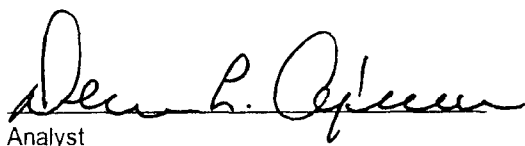
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

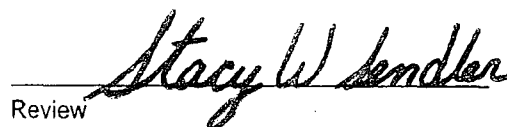
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	10-08-99
Laboratory Number:	10-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

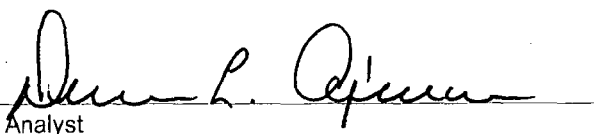
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	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 G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	10-08-99
Laboratory Number:	10-01-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-01-99
Condition:	Cool and Intact	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: QA/QC for sample G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-08-99
Laboratory Number:	G132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-01-99
Condition:	N/A	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

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

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 G132.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	11-04-TCM QA/QC	Date Reported:	11-05-99
Laboratory Number:	G132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	11-04-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	0.076	0.076	0.0%	0% - 30%
Barium	ND	ND	0.001	1.07	1.06	0.4%	0% - 30%
Cadmium	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Lead	ND	ND	0.001	0.460	0.459	0.2%	0% - 30%
Mercury	ND	ND	0.0005	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.076	0.577	100.2%	80% - 120%
Barium	1.00	1.07	2.06	99.7%	80% - 120%
Cadmium	0.250	0.013	0.264	100.4%	80% - 120%
Chromium	0.250	0.002	0.251	99.6%	80% - 120%
Lead	0.250	0.460	0.709	99.9%	80% - 120%
Mercury	0.125	ND	0.125	100.0%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.250	ND	0.251	100.4%	80% - 120%

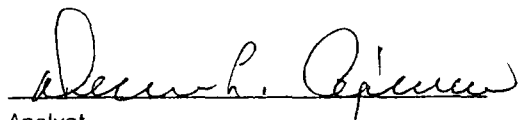
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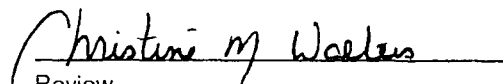
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by
GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: QA/QC for samples G132, G168, G181, G191 and G243.


Analyst


Review

7409

ENVIROTECH INC.

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

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

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env. JN: 98059-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Universal Compression</u>
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>425 Hwy 650</u> <u>Artesia, NM 87410</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of spills & leaks of compressor lube from various compressor units in Main Yard for overhaul.

RECEIVED

DEC 20 1999

Environmental Bureau
Oil Conservation Division

RECEIVED
DEC 15 1999
OIL CON. DIV.
DIST. 3

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-15-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fent TITLE: Geologist DATE: 12/16/99
APPROVED BY: Tom Brown TITLE: Env. Bureau Chief DATE: 12/20/99



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: UNIVERSAL Compression 1125 US HWY 550 Aztec, NM 87410	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name): 1125 US HWY 550 Aztec, NM 87410 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): Yard 1125 US HWY 550 Aztec, NM 87410
4. Source and Description of Waste Misc. spills and leaks from Compression Equipment	

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

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

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

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

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

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

Name (Original Signature): [Signature]

Title: REG. SUP.

Date: 12-15-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-03-99
Lab ID#:	G526	Date Sampled:	12-01-99
Sample Matrix:	Soil	Date Received:	12-01-99
Preservative:	Cool	Date Analyzed:	12-03-99
Condition:	Cool and Intact	Chain of Custody:	7582

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

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 8.29

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
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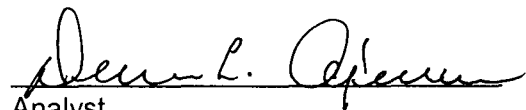
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
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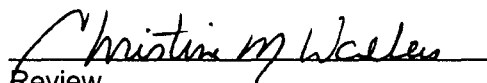
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
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REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (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)
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Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: U.S Hwy 550.
Field PHC; Spills & Leaks.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0023	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0138	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

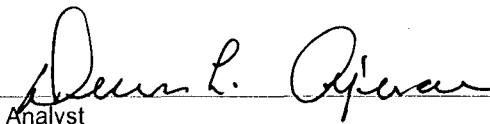
ND - Parameter not detected at the stated detection limit.

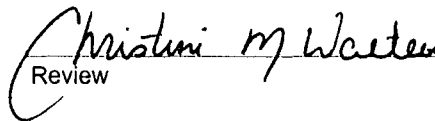
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

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

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

Comments: U.S. Hwy. 550. Field PHC; Spills & Leaks.


Analyst


Review

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

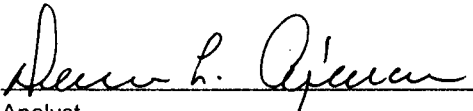
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

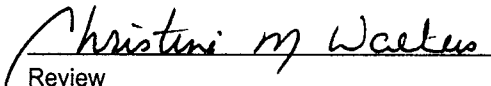
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

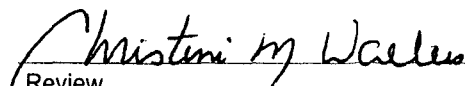
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

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

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

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC
LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Analyzed:	12-08-99
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.050	0.001	5.0
Barium	1.05	0.001	21
Cadmium	0.053	0.001	0.11
Chromium	0.025	0.001	0.60
Lead	0.073	0.001	0.75
Mercury	0.005	0.001	0.025
Selenium	0.029	0.001	5.7
Silver	0.098	0.001	0.14

ND - Parameter not detected at the stated detection limit.

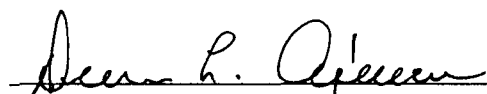
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

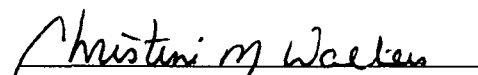
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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:	12-08-99
Laboratory Number:	12-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

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

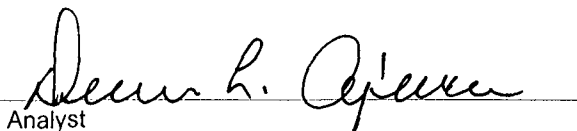
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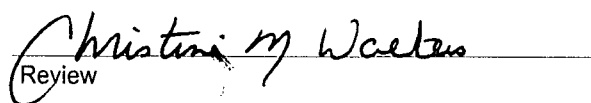
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-08-99
Laboratory Number:	12-03-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99
		Analysis Requested:	TCLP

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

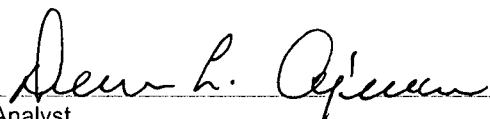
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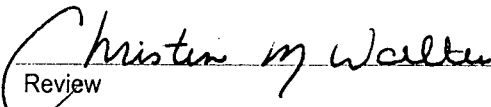
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

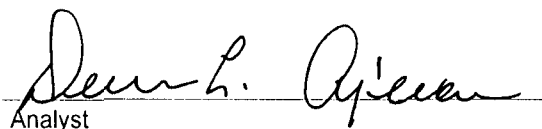
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99

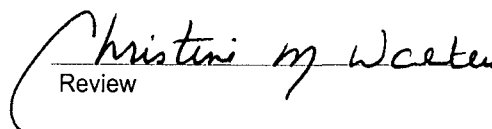
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0026	0.0026	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0050	0.0050	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: G525
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

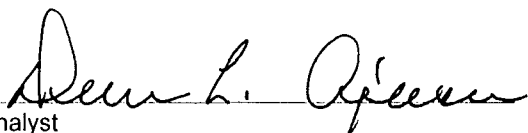
Project #: N/A
Date Reported: 12-08-99
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 12-07-99
Date Extracted: N/A

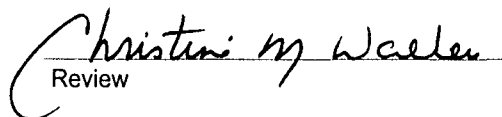
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0026	0.050	0.0521	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0050	0.050	0.0548	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

EPA METHOD 8040
PHENOLS
Quality Assurance Report
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

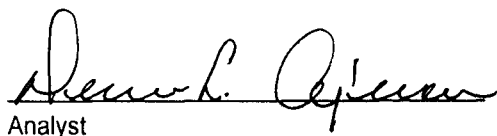
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

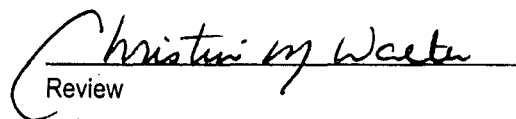
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

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:	12-07-99
Laboratory Number:	12-03-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

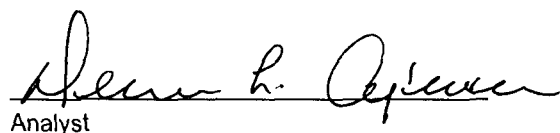
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

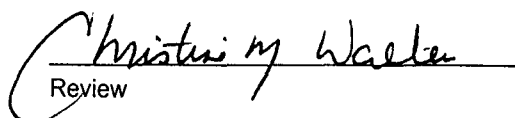
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

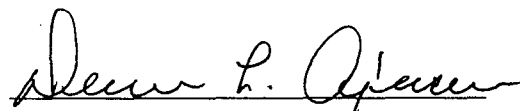
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

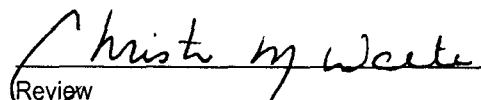
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

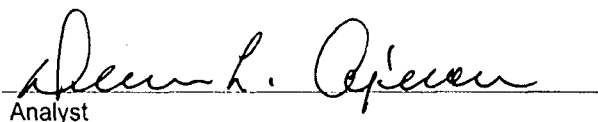
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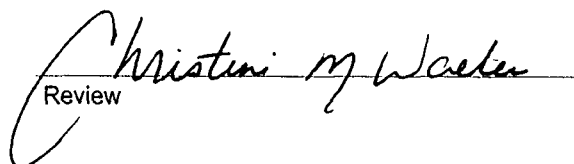
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Laboratory Number:	12-03-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool and Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

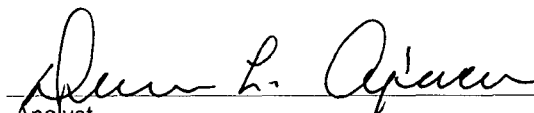
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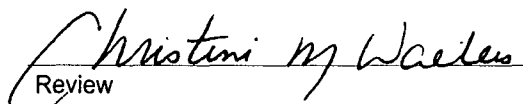
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	101%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: G526
Sample Matrix: TCLP Extract
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 12-07-99
Date Sampled: N/A
Date Received: N/A
Date Extracted: 12-03-99
Date Analyzed: 12-07-99
Analysis Requested: TCLP

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

ND - Parameter not detected at the stated detection limit.

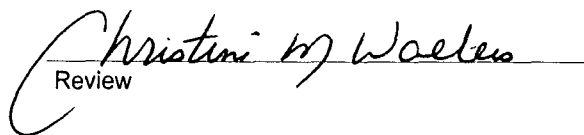
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

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 G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	12-08-TCM QA/QC	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	12-08-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Barium	ND	ND	0.001	0.399	0.396	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.064	0.063	1.6%	0% - 30%
Chromium	ND	ND	0.001	0.064	0.064	0.0%	0% - 30%
Lead	ND	ND	0.001	0.029	0.029	0.0%	0% - 30%
Mercury	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.058	0.059	1.7%	0% - 30%
Silver	ND	ND	0.001	0.038	0.038	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.013	0.512	99.8%	80% - 120%
Barium	0.500	0.399	0.897	99.8%	80% - 120%
Cadmium	0.500	0.064	0.563	99.8%	80% - 120%
Chromium	0.500	0.064	0.563	99.8%	80% - 120%
Lead	0.500	0.029	0.528	99.8%	80% - 120%
Mercury	0.050	0.007	0.056	98.2%	80% - 120%
Selenium	0.500	0.058	0.557	99.8%	80% - 120%
Silver	0.500	0.038	0.539	100.2%	80% - 120%

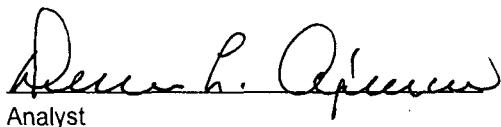
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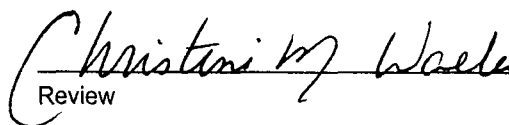
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

Comments: QA/QC for samples G525 - G526.


Analyst


Review

CHAIN OF CUSTODY RECORD

7582

Client / Project Name			Project Location			ANALYSIS / PARAMETERS									
Universal Compression			U.S. HWY 550												
Sampler: <i>Heran W. Brown</i> Client No. 98059-01															
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers						Remarks				
Compressor Lubc	12-1-99	14:00	Q526	Soil	1	<i>TRP 2/10 H.P.</i>					Field Precipitation <i>Leakage</i>				
Relinquished by: (Signature)			Date	Time	Received by: (Signature)						Date	Time			
<i>Heran W. Brown</i>			12-1-99	14:50	<i>Mark W. Black</i>						12-1-99	14:50			
Relinquished by: (Signature)					Received by: (Signature)										
Relinquished by: (Signature)					Received by: (Signature)										

ENVIROTECH INC.

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

Sample Receipt

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

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

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

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env. JN: 98059-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator <u>Universal Compression</u>
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site <u>Main Yard Wash bay</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>TBA</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>425 US. Hwy 550 ARTEZIA, NM 87410</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Sledge generated @ Wash rack for cleaning oil & gas
Compression & production equipment

RECEIVED

DEC 20 1999

Environmental Bureau
Oil Conservation Division

RECEIVED
DEC 15 1999
OIL CON. DIV.
DIST. 3

Estimated Volume 25 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-15-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Kent TITLE: Geologist DATE: 12/16/99
APPROVED BY: Erin Bowen TITLE: Erin Bowen Chief DATE: 12/20/99



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87412
(505) 334-5178 Fax (505) 334-5170

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: UNIVERSAL COMPRESSION 1125 US HWY 550 AZTEC, NM 87410	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name): 1125 US HWY 550 AZTEC, NM 87410 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): Wash Bay 1125 US HWY 550 AZTEC, NM 87410
4. Source and Description of Waste Waste water from cleaning of compression equipment	

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

☐ EXEMPT oilfield waste

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

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

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

☐ MSDS Information
☒ RCRA Hazardous Waste Analysis
☒ Chain of Custody

☐ Other (description):

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

Name (Original Signature): [Signature]

Title: REG SWD

Date: 12-15-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

December 10, 1999

Ms. Cheryl Miller
Universal Compression
1125 Hwy 64
Farmington, NM 87401

Project No.: 98059-03

Dear Ms. Miller,

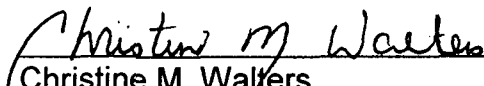
Enclosed is the analytical result for the sample collected from the location designated as "U.S. Hwy 550". One Sludge and one soil sample were collected on 12/01/99, and received by the Envirotech laboratory on 12/01/99 for TCLP W/O Herbicides and Pesticides.

The samples were documented on Envirotech Chain of Custody No. 7581 and 7582 and assigned Laboratory No. G525 (Wash Bay Solids) and G526 (Compressor Lube) for tracking purposes.

The samples were analyzed 12/03/99 - 12/07/99 using USEPA or equivalent methods.

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

Respectfully submitted,
Envirotech, Inc.


Christine M. Walkers
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/univer.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #:	805903
Sample ID:	Wash Bay Solids	Date Reported:	12-03-99
Lab ID#:	G525	Date Sampled:	12-01-99
Sample Matrix:	Sludge	Date Received:	12-01-99
Preservative:	Cool	Date Analyzed:	12-03-99
Condition:	Cool and Intact	Chain of Custody:	7581

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

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 7.28

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
-----------	---------------------------

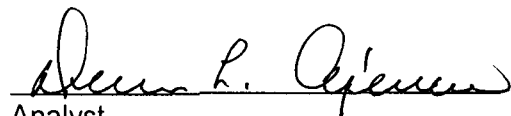
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
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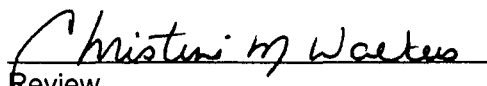
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
--------------	---

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

Comments: U.S Hwy 550.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS

Client:	Universal Compression	Project #:	805903
Sample ID:	Wash Bay Solids	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	12-01-99
Chain of Custody:	7581	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0026	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0050	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

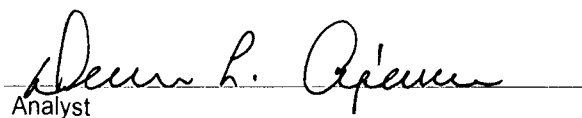
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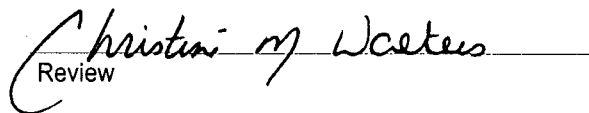
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

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

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

Comments: U.S. Hwy. 550.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	805903
Sample ID:	Wash Bay Solids	Date Reported:	12-07-99
Laboratory Number:	G525	Date Sampled:	12-01-99
Chain of Custody:	7581	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	0.168	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

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

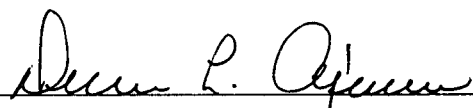
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

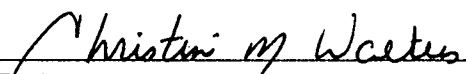
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: U. S. Hwy. 550.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Universal Compression	Project #:	805903
Sample ID:	Wash Bay Solids	Date Reported:	12-07-99
Laboratory Number:	G525	Date Sampled:	12-01-99
Chain of Custody:	7581	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.177	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

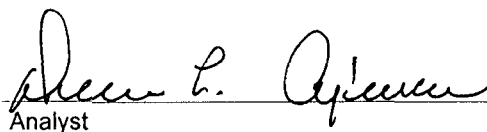
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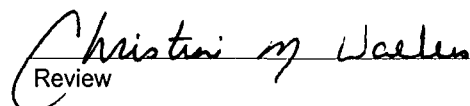
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

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

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

Comments: U. S. Hwy. 550.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	805903
Sample ID:	Wash Bay Solids	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	12-01-99
Chain of Custody:	7581	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Analyzed:	12-08-99
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.013	0.001	5.0
Barium	0.399	0.001	21
Cadmium	0.064	0.001	0.11
Chromium	0.064	0.001	0.60
Lead	0.029	0.001	0.75
Mercury	0.007	0.001	0.025
Selenium	0.058	0.001	5.7
Silver	0.038	0.001	0.14

ND - Parameter not detected at the stated detection limit.

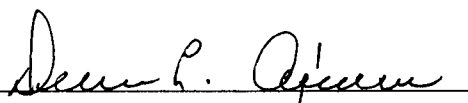
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

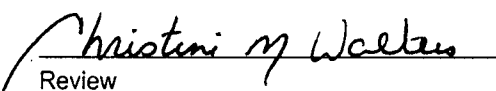
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: U. S. Hwy. 550.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-08-99
Laboratory Number:	12-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

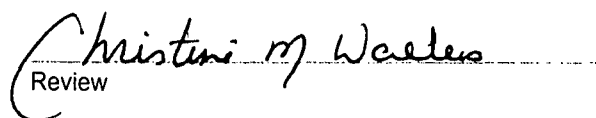
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-08-99
Laboratory Number:	12-03-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99
		Analysis Requested:	TCLP

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

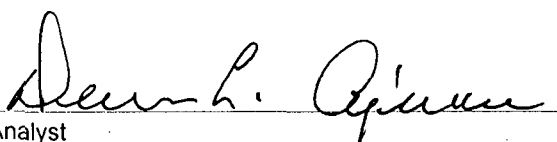
ND - Parameter not detected at the stated detection limit.

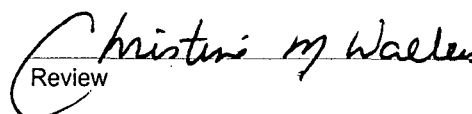
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: G525
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

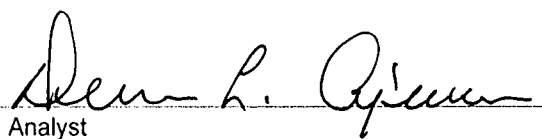
Project #: N/A
Date Reported: 12-08-99
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 12-07-99
Date Extracted: 12-03-99

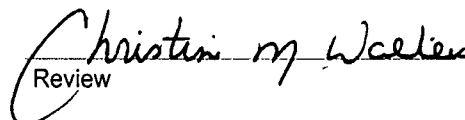
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0026	0.0026	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0050	0.0050	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: G525
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

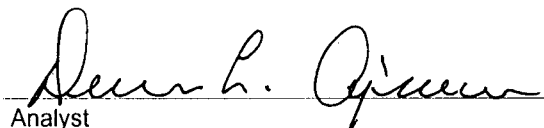
Project #: N/A
Date Reported: 12-08-99
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 12-07-99
Date Extracted: N/A

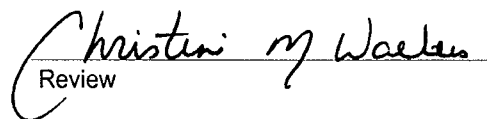
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0026	0.050	0.0521	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0050	0.050	0.0548	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

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:	12-07-99
Laboratory Number:	12-07-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

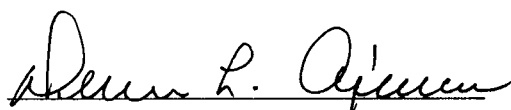
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

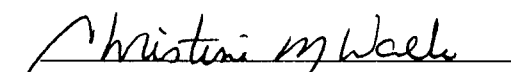
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

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:	12-07-99
Laboratory Number:	12-03-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

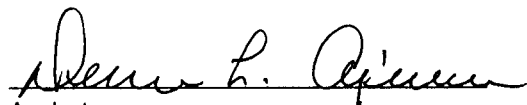
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

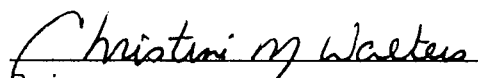
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

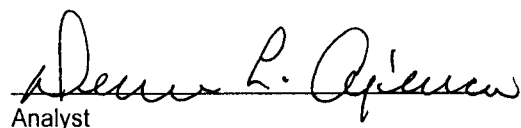
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

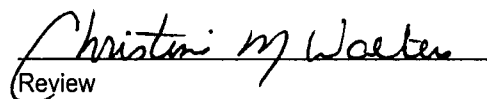
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

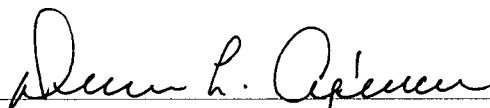
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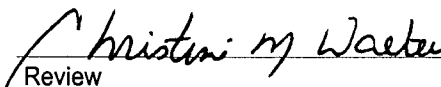
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Laboratory Number:	12-03-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool and Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

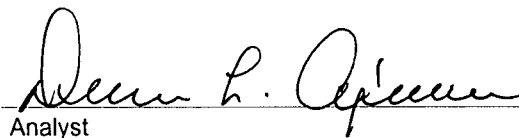
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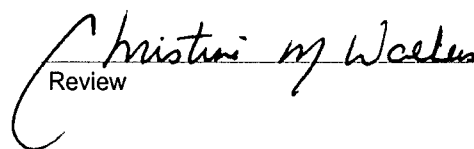
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	101%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	12-03-99
Condition:	N/A	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

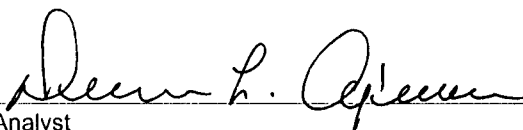
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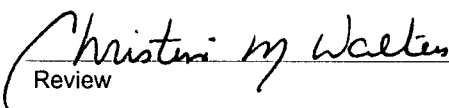
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

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

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

Comments: QA/QC for sample G525 - G526.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	12-08-TCM QA/QC	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	12-08-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Barium	ND	ND	0.001	0.399	0.396	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.064	0.063	1.6%	0% - 30%
Chromium	ND	ND	0.001	0.064	0.064	0.0%	0% - 30%
Lead	ND	ND	0.001	0.029	0.029	0.0%	0% - 30%
Mercury	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.058	0.059	1.7%	0% - 30%
Silver	ND	ND	0.001	0.038	0.038	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.013	0.512	99.8%	80% - 120%
Barium	0.500	0.399	0.897	99.8%	80% - 120%
Cadmium	0.500	0.064	0.563	99.8%	80% - 120%
Chromium	0.500	0.064	0.563	99.8%	80% - 120%
Lead	0.500	0.029	0.528	99.8%	80% - 120%
Mercury	0.050	0.007	0.056	98.2%	80% - 120%
Selenium	0.500	0.058	0.557	99.8%	80% - 120%
Silver	0.500	0.038	0.539	100.2%	80% - 120%

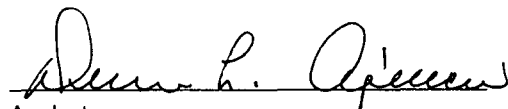
ND - Parameter not detected at the stated detection limit.

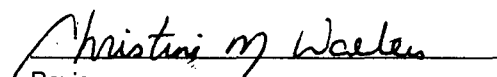
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

Comments: QA/QC for samples G525 - G526.


Analyst


Review

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ENVIROTECH INC.

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
Alamogordo, 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: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator VASTAR Resources 5. Originating Site Various Locations 6. Transporter Envirotech 8. State Southern Utah Colorado → New Mexico SEE ATTACHED CWS.
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	
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:

Cleanup of soil contaminated with used compressor lube oil.

RECEIVED
DEC 20 1999
Environmental Bureau
Oil Conservation Division

RECEIVED
DEC 15 1999
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 TITLE: Landfarm Manager DATE: 12-13-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fent TITLE: Geologist DATE: 12/16/99
APPROVED BY: John A. ... TITLE: Env Bureau Chief DATE: 12/22/99



SOUTHERN UTE INDIAN TRIBE

December 7, 1999

Margaret M. Obluda
Environmental Coordinator
Vastar Resources, Inc.
15375 Memorial Drive
Houston, TX 77079

Re: Tribal Notification of Transportation of Non-exempt Oil Field Waste
60 cubic yards of non-exempt, oil contaminated soil
Vastar Resources, Inc., Treating Site 17-B, NENE Sec. 3 T32N R10W,
Wellsite 17-3; 32-9, SESW Sec. 17 T32N R9W

Dear Ms. Obluda:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transport of 60 cubic yards of contaminated soil of RCRA non-exempt oil from the above referenced sites to a land farm in New Mexico. It is our understanding that the contaminated soil will be transported to Envirotech's landfarm in New Mexico.

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

Sincerely,

Cheryl L. Wiescamp
Division Head
Environmental Programs



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Vastar Resources, Inc. 115375 Memorial Drive Houston, TX 77079	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name): Treating Site #7B (NE/4, NE/4, Sec. 3, T-32N, R-10W) and Well-site 17-3; 32-9 (SE/4, SW/4, Sec. 17, T-32N, R-9W) Southern Ute Indian Reservation La Plata County, Colorado Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Soil contaminated with used compressor engine lubricating oil.	

I, Margaret M. Obluda representative for:
(Print Name)
Vastar Resources, Inc. do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check appropriate classification)

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

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

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

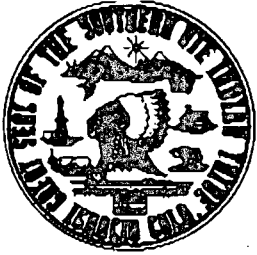
☐ MSDS Information ☒ Other (description): TCPLP
☐ RCRA Hazardous Waste Analysis
☒ Chain of Custody

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

Name (Original Signature): Margaret M. Obluda
(Margaret Obluda)

Title: Environmental Coordinator

Date: 12/6/99



SOUTHERN UTE INDIAN TRIBE

December 9, 1999

Margaret M. Obluda
Environmental Coordinator
Vastar Resources, Inc.
15375 Memorial Drive
Houston, TX 77079

Re: Tribal Notification of Transportation of Non-exempt Oil Field Waste
60 cubic yards of non-exempt, oil contaminated soil
Vastar Resources, Inc., Treating Site 17-B, NENE Sec. 3 T32N R10W,
Wellsite 17-3; 32-9, SESW Sec. 17 T32N R9W

Dear Ms. Obluda:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transport of 60 cubic yards of contaminated soil of RCRA non-exempt oil from the above referenced sites to a land farm in New Mexico. It is our understanding that the contaminated soil will be transported to Envirotech's landfarm in New Mexico.

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

Sincerely,

A handwritten signature in cursive script that reads "Cheryl L. Wiescamp".

Cheryl L. Wiescamp
Division Head
Environmental Programs

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

November 29, 1999

Mr. Ross Kennemer
Animas Environmental Services
P.O. Box 5314
Farmington, NM 87499

Project No.: 908301

Dear Mr. Kennemer,

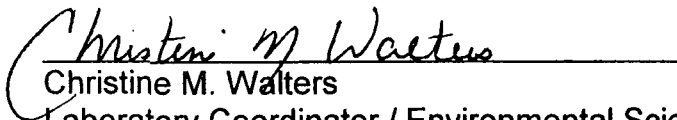
Enclosed is the analytical result for the sample collected from the location designated as "Vastar Resources Treatment Plant 7B and Southern Ute 17-3; 32-9 Composite". One soil sample was collected on 11/19/99, and received by the Envirotech laboratory on 11/22/99 for TCLP W/O Herbicides and Pesticides.

The samples were documented on Envirotech Chain of Custody No. 7574 and assigned Laboratory No. G493 (Excavated Soils) for tracking purposes.

The samples were analyzed 11/22/99 thru 11/24/99 using USEPA or equivalent methods.

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

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/animas.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-22-99
Lab ID#:	G493	Date Sampled:	11-19-99
Sample Matrix:	Soil	Date Received:	11-22-99
Preservative:	Cool	Date Analyzed:	11-22-99
Condition:	Cool and Intact	Chain of Custody:	7574

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

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 8.25

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
-----------	---------------------------

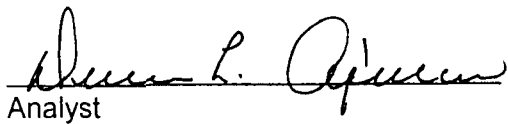
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
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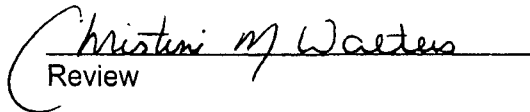
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
--------------	--

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: Vastar Resources Treatment Plant 7B and
Southern Ute 17-3; 32-9 Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Extracted:	11-22-99
Preservative:	Cool	Date Analyzed:	11-24-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0002	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0021	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

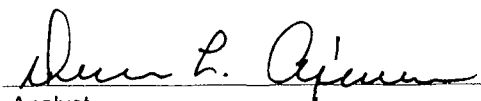
ND - Parameter not detected at the stated detection limit.

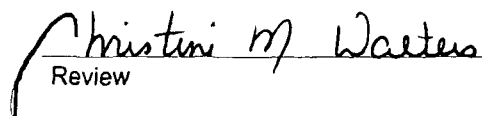
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

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

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

Comments: **Vastar Resources Treatment Plant 7B and
Southern Ute 17-3; 32-9 Composite.**


Analyst


Review

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Extracted:	11-22-99
Preservative:	Cool	Date Analyzed:	11-24-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

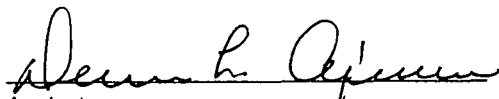
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

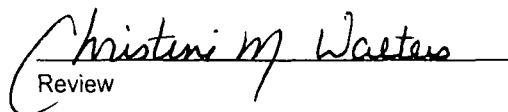
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: **Vastar Resources Treatment Plant 7B and
Southern Ute 17-3; 32-9 Composite.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Extracted:	11-22-99
Preservative:	Cool	Date Analyzed:	11-23-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

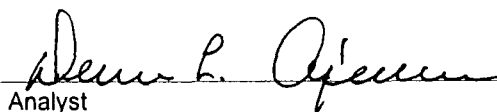
ND - Parameter not detected at the stated detection limit.

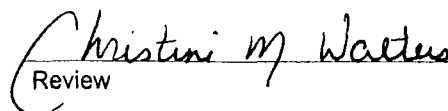
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

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

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

Comments: Vastar Resources Treatment Plant 7B and
Southern Ute 17-3; 32-9 Composite.


Analyst


Review

EPA METHOD 1311
TOXICITY CHARACTERISTIC
LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-23-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Analyzed:	11-23-99
Preservative:	Cool	Date Extracted:	11-22-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	1.74	0.001	21
Cadmium	ND	0.001	0.11
Chromium	ND	0.001	0.60
Lead	0.028	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

ND - Parameter not detected at the stated detection limit.

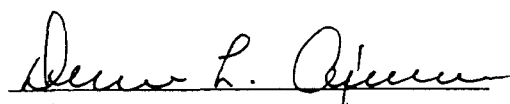
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

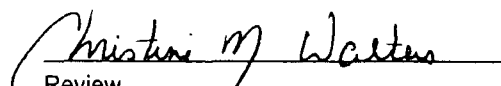
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Vastar Resources Treatment Plant 7B and
Southern Ute 17-3; 32-9 Composite.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	11-24-99
Laboratory Number:	11-24-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-24-99
Condition:	N/A	Analysis Requested:	TCLP

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

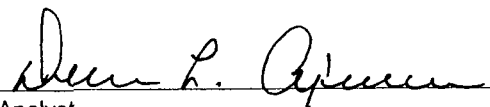
ND - Parameter not detected at the stated detection limit.

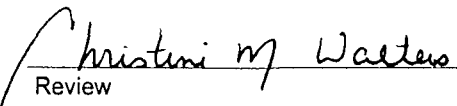
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

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

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

Comments: QA/QC for sample G493.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	11-24-99
Laboratory Number:	11-22-TCLP Vol	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-24-99
Condition:	N/A	Date Extracted:	11-22-99
		Analysis Requested:	TCLP

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

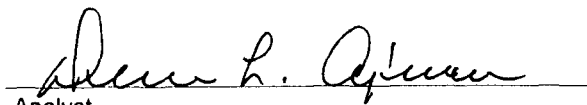
ND - Parameter not detected at the stated detection limit.

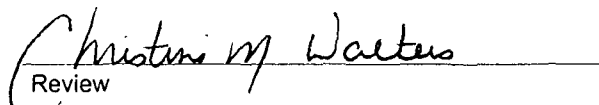
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

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

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

Comments: QA/QC for sample G493.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

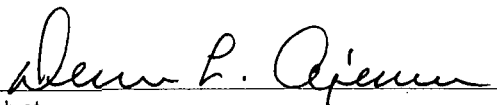
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	11-24-99
Condition:	N/A	Date Extracted:	11-22-99

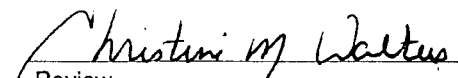
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0002	0.0002	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0021	0.0021	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 G493.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: G493
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

Project #: N/A
Date Reported: 11-24-99
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 11-24-99
Date Extracted: N/A

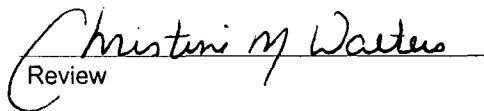
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0002	0.050	0.0497	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0021	0.050	0.0519	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample G493.


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:	11-24-99
Laboratory Number:	11-24-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-24-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

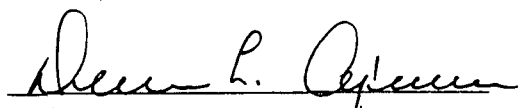
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

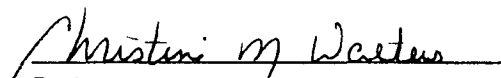
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G493.


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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:	11-24-99
Laboratory Number:	11-22-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	11-22-99
Condition:	Cool & Intact	Date Analyzed:	11-24-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

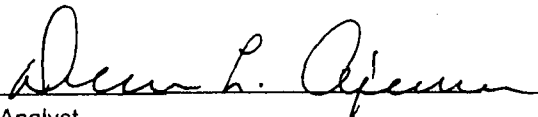
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

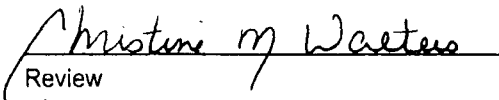
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G493.


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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:	11-24-99
Laboratory Number:	G493	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	11-24-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

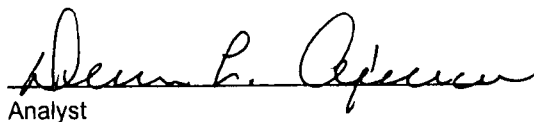
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

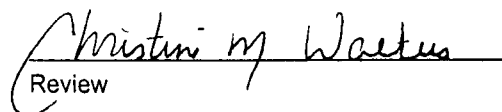
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample G493.


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:	11-24-99
Laboratory Number:	11-23-TCBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	11-23-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

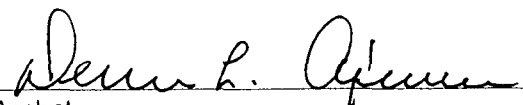
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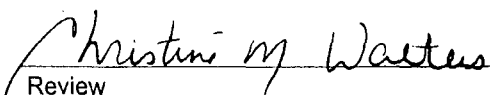
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

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 G493.


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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
Sample ID: Method Blank
Laboratory Number: 11-22-TCBN
Sample Matrix: TCLP Extract
Preservative: Cool
Condition: Cool and Intact

Project #: N/A
Date Reported: 11-24-99
Date Sampled: N/A
Date Received: N/A
Date Extracted: 11-22-99
Date Analyzed: 11-23-99
Analysis Requested: TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

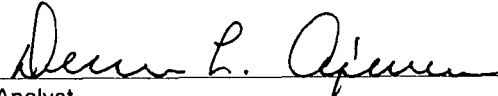
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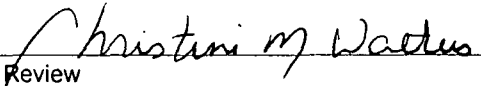
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

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

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

Comments: QA/QC for sample G493.


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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:	11-24-99
Laboratory Number:	G493	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	11-22-99
Condition:	N/A	Date Analyzed:	11-23-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
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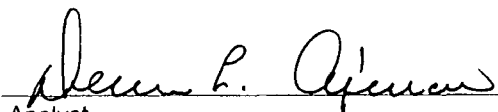
8090 Compounds

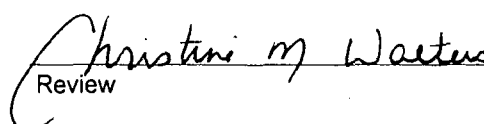
30%

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

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

Comments: QA/QC for sample G493.


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	11-23-TCM QA/QC	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	11-23-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.74	1.71	1.7%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	0.028	0.029	3.6%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	ND	0.498	99.6%	80% - 120%
Barium	1.00	1.74	2.73	99.6%	80% - 120%
Cadmium	0.250	ND	0.250	100.0%	80% - 120%
Chromium	0.250	ND	0.251	100.4%	80% - 120%
Lead	0.250	0.028	0.277	99.6%	80% - 120%
Mercury	0.125	ND	0.124	99.2%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.250	ND	0.250	100.0%	80% - 120%

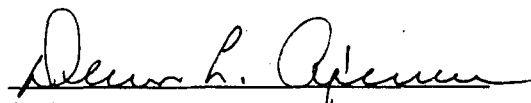
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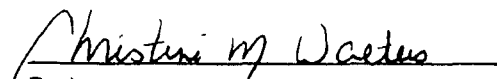
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

Comments: QA/QC for sample G493.


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