NM1-011

CONTINUED

C-138

YEAR(S):

2006-1997

*<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505



Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEP	TSOLID-WASTE
1. RCRA Exempt: Non-Exempt: 🖂	4. Generator: Halliburton Energy Services 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Spill Site
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Utahto New Mexico
7. Location of Material (Street Address or ULSTR) 5 Miles South of Price, Utah on Highway 10	Project # 92132-025
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste c approved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Contaminated soil from truck rollover consisting of diesel, anti-freeze, and	oil.
CWS & MSDS attached	
Estimated Volumecy Known Volume (to be entered by the operator at the entered by the entered	nd of the haul)cy
SIGNATURE JULIA R. JULISO TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 11/08/02
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	88 80 80
(This space for State Use)	
APPROVED BY: Deny Kent TITLE: Envire	DATE: 03/18/03 An/ Geologist DATE: 03/28/03
APPROVED BY: Marlyn John TITLE: Environm	In/Geologist DATE: 03/28/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-6178 Fex (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services	Envirotech Soil Remediation Facility
10x5 F. Min Street	Landfarm #2 Hilltop, New Mexico
Vernal, Utah 84078	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Hallubruten Energy Street	5 mileo S. O, Price, Utah
Vernal, Utah 84078	on Hwy 10
3,3,0	
4. Source and Description of Waste	· (// exist) (1) of . 15th
The books and bassing in the same succession	rellover. Waster Streams
Consisted of diesel, an	til-frenze, and oil.
all related soils were	e also removed.
Lellie OSkoltm	representative for:
(Print Name)	1 504 15 0 1 1
- HUW WITH ZNESS	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	vaste is: (Check appropriate classification)
v	
	PT oilfield waste which is non-hazardous by characteristic
anaiysis or i	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 documentate	
RCRA Hazardous Waste Analysis	Other (description):
Chain of Custody	
This waste is in agmaliance with Regulated Levels of N	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	starting recording franciscotive injection (140 Hist) pursuant
Name (Original Signature)	Am
\mathcal{A}_{i}	,
Title: HSE SICKNOOLS	Massinal

HALLIBURTON

MATERIAL SAFETY DATA SHEET

DIESEL FUEL

Revision Date:

10/23/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name:

DIESEL FUEL

Synonyms:

None

Chemical Family:

Organic hydrocarbon

Application:

Fuel

Manufacturer/Supplier

Halliburton Energy Services

P.O. Box 1431

Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

Prepared By

Product Stewardship

Telephone: 1-580-251-4335

2. COMPOSITION/INFORMATION ON INGREDIENTS

ACGIH TLV-TWA OSHA PEL-TWA

Substance

Weight

Percent (%)

Diesel 68476-34-6 60 - 100%

Not applicable

Not applicable

3. HAZARDS IDENTIFICATION

Hazard Overview

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. Potential carcinogen. Combustible.

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

DIESEL FUEL Page 1 of 7

Skin

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

Eyes

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Ingestion

Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Notes to Physician

Not Applicable

5. FIRE FIGHTING MEASURES

Flash Point/Range (F):

Not Determined

Min: > 150

Flash Point/Range (C):

Not Determined

Min: > 65

Flash Point Method:

Not Determined

Autoignition Temperature (F):

495

Autoignition Temperature (C):

257

Flammability Limits in Air - Lower (%):

0.7

Flammability Limits in Air - Upper (%):

6

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases.

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings:

Health 1, Flammability 2, Reactivity 0

HMIS Ratings:

Flammability 2, Reactivity 0, Health 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

Environmental Precautionary Measures

Prevent from entering sewers, waterways or low areas.

Procedure for Cleaning/Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing

DIESEL FUEL Page 2 of 7 before reuse.

Storage Information

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Respiratory Protection

Organic vapor respirator.

Hand Protection

Impervious rubber gloves.

Skin Protection

Rubber apron.

Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions

Eyewash fountains and safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear colorless

Odor: Diesel

pH: Not Determined

Specific Gravity @ 20 C (Water=1): 0.84
Density @ 20 C (lbs./gallon): 7.0

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 300 Boiling Point/Range (C): 148

Freezing Point/Range (F):

Not Determined

Not Determined

Vapor Pressure @ 20 C (mmHg): 1

Vapor Density (Air=1): Not Determined

Percent Volatiles: 100

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Insoluble
Solubility in Solvents (g/100ml): Not Determined

Solubility in Sea Water (g/100ml): Insoluble VOCs (lbs./gallon): Not Determined

Viscosity, Dynamic @ 20 C

(centipoise): Not Determined

Viscosity, Kinematic @ 20 C

(centistrokes): 2.0-5.8

Partition Coefficient/n-Octanol/Water: Not Determined Molecular Weight (g/mole): Not Determined

10. STABILITY AND REACTIVITY

Stability Data:

Stable

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid

Keep away from heat, sparks and flame.

Incompatibility (Materials to Avoid)

Strong oxidizers.

Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

Additional Guidelines

Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Eye or skin contact, inhalation.

Inhalation

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Skin Contact

May cause skin defatting with prolonged exposure. May cause skin irritation.

Eye Contact

May cause eye irritation.

Ingestion

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

Aggravated Medical Conditions

Skin disorders.

Chronic Effects/Carcinogenicity

Contains petroleum distillates which have been shown to cause skin cancer in laboratory animals.

Other Information

None known.

Toxicity Tests

Oral Toxicity:

Not determined

Dermal Toxicity:

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive/Developmental

Toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Slowly biodegradable

Bio-accumulation

Not Determined

Ecotoxicological Information

Acute Fish Toxicity:

Not determined

Acute Crustaceans Toxicity:

Not determined

Acute Algae Toxicity:

Not determined

Chemical Fate Information

Not determined

Other Information

Not applicable

13. DISPOSAL CONSIDERATIONS

Disposal Method

Disposal should be made in accordance with federal, state and local regulations.

Contaminated Packaging

If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or disposal according to national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

Not restricted

DOT (Bulk)

Diesel Fuel, Combustible Liquid, NA1993, III

Canadian TDG

Not restricted

ADR

Not restricted

Air Transportation

ICAO/IATA

Not restricted

Sea Transportation

IMDG

Not restricted

Other Shipping Information

Labels:

Combustible

15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory

All components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances

Not applicable

EPA SARA (311,312) Hazard Class

Acute Health Hazard Chronic Health Hazard Fire Hazard

EPA SARA (313) Chemicals

This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund Reportable Spill Quantity For This Product

Not applicable.

EPA RCRA Hazardous Waste Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

DIESEL FUEL Page 6 of 7

California Proposition 65

All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law

Does not apply.

NJ Right-to-Know Law

Does not apply.

PA Right-to-Know Law

Does not apply.

Canadian Regulations

Canadian DSL Inventory

All components listed on inventory.

WHMIS Hazard Class

B3 Combustible Liquids

16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS

Not applicable

Additional Information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

END OF MSDS

Material Safety Data Sheet Material Safety Data Sheet Material Safety Data Sheet Material Safety Data Sheet

CHEVRON CHEVRON CHEVRON CHEVRON

Page 1 of 8

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Antifreeze (EHL)

PRODUCT NUMBER(S): CPS698420

COMPANY IDENTIFICATION

CHEVRON PRODUCTS COMPANY First Floor, 43/45 The Promenade Cheltenham Gloucestershire, GL50 1LE United Kingdom TELEPHONE: +44 (0) 1242 266700

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International) TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887 Emergency Information Centers are located in U.S.A. Int'l collect calls accepted

PRODUCT INFORMATION: CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR TECHNICAL INFORMATION OR ADDITIONAL MSDS REQUESTS.

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Antifreeze (EHL)

CONTAINING

LIMIT/QTY AGENCY/TYPE TNUOMA COMPONENTS

ETHYLENE GLYCOL

Chemical Name: ETHYLENE GLYCOL

> 90.00% CAS107211 C 50 ppm ACGIH TWA 125 mg/m3OSHA CEILING

5,000 LBS CERCLA 302.4 RQ

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

Revision Date: 11/17/99 Revision Number: 2 MSDS Number: 007425

CHEVRON	Antifreeze	(EHL)
	2 41 1 C T T T C C Z C	\ \L\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \

Page 2 of 8

3. HAZARDS IDENTIFICATION

Colorless (when not dyed).

- HARMFUL OR FATAL IF SWALLOWED
- MAY CAUSE RESPIRATORY TRACT IRRITATION IF INHALED
- POSSIBLE BIRTH DEFECT HAZARD MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA

IMMEDIATE HEALTH EFFECTS

EYE:

Not expected to cause prolonged or significant eye irritation. SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Toxic; may be harmful or fatal if swallowed. See Section 11 for additional information.

INHALATION:

The vapor or fumes from this material may cause respiratory irritation. Breathing this material at concentrations above the recommended exposure limit may cause central nervous system effects.

SIGNS AND SYMPTOMS OF EXPOSURE:

INGESTION: May result in nausea, vomiting, diarrhea, and in severe cases, collapse, shock and death. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death. Respiratory irritation: may include coughing and difficulty breathing. REPRODUCTION AND BIRTH DEFECTS:

Contains material that may cause birth defects, if swallowed, based on animal data. Risk depends on duration and level of exposure. See Section 11 for additional information. TARGET ORGANS:

Contains material that may cause damage to the following organ(s) following repeated ingestion: >Kidney< >Liver< Risk depends on duration and level of exposure. See Section 11 for additional information.

4. FIRST AID MEASURES

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

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SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

INGESTION:

If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

INHALATION:

Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: 257F (125C)

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: 3.2 Upper: 15.3

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam and Water Fog.

NFPA RATINGS: Health 2; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

This material will burn although it is not easily ignited. 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 and water vapor; incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3887 International Collect Calls Accepted

ACCIDENTAL RELEASE MEASURES:

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. 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.

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7. HANDLING AND STORAGE

Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner, or properly disposed of. Wash thoroughly after handling. Do not taste or swallow. Do not breathe vapor or fumes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice. SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Natural Rubber> <Nitrile> <Polyvinyl Chloride (Also referred to as "Vinyl" or "PVC")>

RESPIRATORY PROTECTION:

Determine if airborne concentrations are below the recommended exposure limits. If not, wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following respirators: Organic vapor plus dust mask filter. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Colorless (when not dyed).

: Hq

NDA

VAPOR PRESSURE:

NA

VAPOR DENSITY

(AIR=1):

NA

BOILING POINT:

>165C

FREEZING POINT:

NDA

MELTING POINT:

NA

SOLUBILITY:

Soluble in water.

SPECIFIC GRAVITY: NDA

DENSITY:

NDA

VISCOSITY:

21 @ 20C cPs

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

No data available.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

The eye irritation hazard is based on an evaluation of the data for the components.

SKIN EFFECTS:

The skin irritation hazard is based on an evaluation of the data for the components.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on an evaluation of the data for the components.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on an evaluation of the data for the components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the

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deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

This material is expected to be readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

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: NONE DOT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: ETHYLENE GLYCOL - - NOT HAZARDOUS BY U.S. DOT

ADR/RID HAZARD CLASS - NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:

- Immediate (Acute) Health Effects: YES
- 2. Delayed (Chronic) Health Effects: YES
 - 3. Fire Hazard:

110

4. Sudden Release of Pressure Hazard: NO

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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.

ETHYLENE GLYCOL

is found on lists: 01,02,10,11,12,13,14,28,29,

EU RISK AND SAFETY LABEL PHRASES:

R22: Harmful if swallowed.

R20: Harmful by inhalation.

R61: May cause harm to the unborn child.

S53: Avoid exposure - obtain special instructions before use.

S20: When using do not eat or drink.

S46: If swallowed, seek medical advice immediately and show this container or label.

S2: Keep out of reach of children.

WHMIS CLASSIFICATION:

Class D, Division 1, Subdivision B: Toxic Material

-Acute Lethality

Class D, Division 2, Subdivision A: Very Toxic Material

-Teratogenicity and Embryotoxicity

16. OTHER INFORMATION

NFPA RATINGS: Health 2; Flammability 1; Reactivity 0; HMIS RATINGS: Health 2*; Flammability 1; Reactivity 0; (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). 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:

This revision updated Sections 3, and 15.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value TWA - Time Weighted Average

STEL - Short-term Exposure Limit TPQ - Threshold Planning Quantity

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RQ - Reportable Quantity

C - Ceiling Limit

PEL - Permissible Exposure Limit CAS - Chemical Abstract Service Number

Al-5 - Appendix A Categories

() - Change Has Been Proposed

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 1627, Richmond, CA 94804

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

THIS IS THE LAST PAGE OF THIS MSDS

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Halliburton Energy
Verbal Approval Received: Yes \(\sum \) No \(\sum \)	5. Originating Site: Thriftway Service Station #264
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Colorado to New Mexico
7. Location of Material (Street Address or ULSTR) Thriftway Services Station #264, Ignacio, Colorado	Project # 92132-024
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste c approved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Fuel spilled from fuel tank following an incidental puncture. CWS & MSDS attached	
Estimated Volumecy Known Volume (to be entered by the operator at the e	nd of the haul)cy
SIGNATURE JAMAS Authorized Agent TITLE: Environmental	Administrative Assistant DATE: 10/31/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	5- - - - - - - - - - - - - - - - - - -
APPROVED BY: Murty Style. TITLE: Environm	D/Eng/ DATE: 03/18/03 And Geologist DATE: 3/20/03

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

المراقع المراق	
1. Generator Name and Address:	2. Destination Name:
fullbutton Exercing Services	Envirotech Soil Remediation Facility
1199 E Main Driet	Landfarm #2 Hilltop, New Mexico
Farmington, nm 87402	hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Halleburton Energy Lewice	Thriftway Service Station #264, Ignacio, CO
Ling F. Main Street	that III force of
A YEAR OF THE MAN SALLOW	#269,091aco, W
Attach list of chiginating sites as appropriate	
4. Source and Description of Waste	
Juel spill from fuel to incidental puncture	inh, Allowering Ro.
South of the state	The Direction of the
inclaired puncture	
1 KIUR OKELIM	
1 // // (Print Name)	0/60
Anhann mered	do hereby certify that,
	Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Naste IS: (Check appropriate classification)
EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic
	by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentate	ion is attached Inhack appropriate items).
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
·	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•
Name (Original Signature):	IM
Name (Original dignature).	
Title: The lepwica 9	Methoria
The state of the s	
Date: 2/28/63	

HALLIBURTON

MATERIAL SAFETY DATA SHEET

DIESEL FUEL

Revision Date:

10/23/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name:

DIESEL FUEL

Synonyms:

None

Chemical Family:

Organic hydrocarbon

Application:

Fuel

Manufacturer/Supplier

Halliburton Energy Services

P.O. Box 1431

Duncan, Oklahoma 73536-0431

Emergency Telephone: (800) 666-9260 or (713) 676-3000

Prepared By

Product Stewardship

Telephone: 1-580-251-4335

2. COMPOSITION/INFORMATION ON INGREDIENTS

ACGIH TLV-TWA

OSHA PEL-TWA

Substance

Weight Percent (%)

Diesel

60 - 100%

Not applicable

Not applicable

68476-34-6

3. HAZARDS IDENTIFICATION

Hazard Overview

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. Potential carcinogen. Combustible.

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

Eves

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Ingestion

Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Notes to Physician

Not Applicable

5. FIRE FIGHTING MEASURES

Flash Point/Range (F):

Not Determined

Min: > 150

Flash Point/Range (C):

Not Determined

Min: > 65

Flash Point Method:

Not Determined

Autoignition Temperature (F): Autoignition Temperature (C):

495

Flammability Limits in Air - Lower (%):

257 0.7

Flammability Limits in Air - Upper (%):

6...

Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases.

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings:

Health 1, Flammability 2, Reactivity 0

HMIS Ratings:

Flammability 2, Reactivity 0, Health 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

Environmental Precautionary Measures

Prevent from entering sewers, waterways or low areas.

Procedure for Cleaning/Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing

DIESEL FUEL

before reuse.

Storage Information

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Respiratory Protection

Organic vapor respirator.

Hand Protection

Impervious rubber gloves.

Skin Protection

Rubber apron.

Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions

Eyewash fountains and safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear colorless

Odor: Diesel

pH: Not Determined

Specific Gravity @ 20 C (Water=1): 0.84 Density @ 20 C (lbs./gallon): 7.0

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 300 Boiling Point/Range (C): 148

Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Not Determined

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1): Not Determined

Percent Volatiles: 100

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Insoluble
Solubility in Solvents (g/100ml): Not Determined
Solubility in Sea Water (g/100ml): Insoluble

VOCs (lbs./gallon): Viscosity, Dynamic @ 20 C

(centipoise): Not Determined

Viscosity, Kinematic @ 20 C

(centistrokes): 2.0-5.8

Partition Coefficient/n-Octanol/Water: Not Determined Molecular Weight (g/mole): Not Determined

10. STABILITY AND REACTIVITY

Not Determined

Stability Data:

Stable

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid

Keep away from heat, sparks and flame.

Incompatibility (Materials to Avoid)

Strong oxidizers.

Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

Additional Guidelines

Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Eye or skin contact, inhalation.

Inhalation

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Skin Contact

May cause skin defatting with prolonged exposure. May cause skin irritation.

Eye Contact

May cause eye irritation.

Ingestion

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

Aggravated Medical Conditions

Skin disorders.

Chronic Effects/Carcinogenicity

Contains petroleum distillates which have been shown to cause skin cancer in laboratory animals.

Other Information

None known.

Toxicity Tests

Oral Toxicity:

Not determined

Dermal Toxicity:

Not determined

Inhalation Toxicity:

Not determined

Primary Irritation Effect:

Not determined

DIESEL FUEL Page 4 of 7

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive/Developmental

Toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)

Not determined

Persistence/Degradability

Slowly biodegradable

Bio-accumulation

Not Determined

Ecotoxicological Information

Acute Fish Toxicity:

Not determined

Acute Crustaceans Toxicity:

Not determined

Acute Algae Toxicity:

Not determined

Chemical Fate Information

Not determined

Other Information

Not applicable

13. DISPOSAL CONSIDERATIONS

Disposal Method

Disposal should be made in accordance with federal, state and local regulations.

Contaminated Packaging

If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or disposal according to national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

Not restricted

DOT (Bulk)

Diesel Fuel, Combustible Liquid, NA1993, III

Ca	na	di	an	т	n	G

Not restricted

ADR

Not restricted

Air Transportation

ICAO/IATA

Not restricted

Sea Transportation

IMDG

Not restricted

Other Shipping Information

Labels:

Combustible

15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory

All components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances

Not applicable

EPA SARA (311,312) Hazard Class

Acute Health Hazard Chronic Health Hazard Fire Hazard

EPA SARA (313) Chemicals

This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund Reportable Spill Quantity For This Product

Not applicable.

EPA RCRA Hazardous Waste Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

DIESEL FUEL Page 6 of 7

California Proposition 65

All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law Does not apply.

NJ Right-to-Know Law Does not apply.

PA Right-to-Know Law Does not apply.

Canadian Regulations

Canadian DSL Inventory
All components listed on inventory.

WHMIS Hazard Class
B3 Combustible Liquids

16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS Not applicable

Additional Information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

END OF MSDS

DIESEL FUEL Page 7 of 7

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED

MAR 2 7 2003

Environmental Bureau

Oil Conservation Division

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3250 Southside River Road, Farmington	Project #95026-00
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by no material is not-hazardous and the Generator's certification of origin. No waste clapproved 	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL: Soil from sump cleanout and sump removal.	MAR 2003
CWS and sump analytical attached.	MAR 2003 FIGURE DIV. OIL COMS. DIV. DIST. 3
Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of	f the haul)cy
SIGNATURE Andrea R. Lackso TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 03/24/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	332703
(This space for State Use) APPROVED BY: From TITLE: Environ	Engr DATE: 03/25/03
APPROVED BY Mantin TSI. TITLE: Environ mm	b/ Gedgy St DATE: 3/27/03

3-14-03; 1:28PM; ENVIROTECH



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director

Oil Conservation Division

;505632188#

CERTIFICATE OF WASTE STATUS

I. Generator Name and Address	2. Destination Name:
BJ SERVICES	Envirotech Inc. Soil Remediation Facility
3250 SOUTH SIDE RIVER RD	Landfarm #2
3250 30014	Hilltop, New Mexico
FARMINGTON NM 8740/	zamop, r.ov. zaszes
3. Originating Site (name):	Location of the Waste (Street address & or ULSTR):
SAME	·
31:1.12	
	. #
attach list of originating sites as appropriate	
4. Source and Description of Waste	
SOIL FROM SUMP ELEAN O	OUL & SUMP KEMOUPL
SPRINGER	
SCOTT SPRINGER Print Name	representative for ;
Print Name	
BJ SERVICES	do hereby certify that, according to the Resource
Conservation and Recovery Act (RCRA) and Environmental Protectio	on Agency's July 1988, regulatory determination, the above
described waste is: (Check appropriate classification)	
	IPT 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—hi	azardous waste defined above.
For NON-EXEMPT waste the following documentation is attached (o	check appropriate items).
	her (description
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of Naturally Oc	ccurring Radioactive Material (NORM) pursuant to 20
NMAC 3.1 subpart 1403.C and D.	
0-3	
Name (Original Signature): Soll Optiger	
Fitle: PROJECT MANAGER	
1 ALIC: 157 057 62.	
Date: 6/17/03	

Oil Conservation Division * 1000 Rio Brazos Road * Aztec, New Mexico 87410 Phone: (505) 334-6178 * Fax (505) 334-6170 * http://www.emmd.state.nm.us



SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

BJ Services

Project #:

95026-001

Sample ID:

S - 1

Date Reported:

02-14-03

Lab ID#:

24804

Date Sampled:

02-10-03

Sample Matrix:

Sludge

Date Received:

02-10-03

Preservative:

Cool

Date Analyzed:

02-14-03

Condition:

Cool and Intact

Chain of Custody:

10620

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 8.15

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation

of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

3250 Southside River Rd., Farmington, NM 87401 Washbay Sludge.

Analyst

Review



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	BJ Services	Project #:	95026-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24804	Date Sampled:	02-10-03
Chain of Custody:	10620	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Extracted:	02-12-03
Preservative:	Cool	Date Analyzed:	02-13-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0088	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0004	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
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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:

3250 Southside River Rd., Farmington, NM 87401 Wash Bay Sludge.

Analyst P. Que



EPA METHOD 8040 PHENOLS

Client:	BJ Services	Project #:	95026-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24804	Date Sampled:	02-10-03
Chain of Custody:	10620	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Extracted:	02-12-03
Preservative:	Cool	Date Analyzed:	02-13-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
-o-Gresol	· · · · NĐ · · · · ·	0:020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

3250 Southside River Rd., Farmington NM 87401 Wash Bay Sludge.

Analyst

Review



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

Client:	BJ Services	Project #:	95026-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24804	Date Sampled:	02-10-03
Chain of Custody:	10620	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Extracted:	02-12-03
Preservative:	Cool	Date Analyzed:	02-13-03
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

3250 Southside River Rd., Farmington, NM 87401 Washbay Sludge.

Alex C. Oferce



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	BJ Services	Project #:	95026-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24804	Date Sampled:	02-10-03
Chain of Custody:	10620	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Analyzed:	02-14-03
Preservative:	Cool	Date Extracted:	02-12-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Regulatory
Concentration	Limit	Level
(mg/L)	(mg/L)	(mg/L)
0.008	0.001	5.0
0.114	0.001	100
0.001	0.001	1.0
0.001	0.001	5.0
0.001	0.001	5.0
ND	0.001	0.2
0.002	0.001	1.0
ND	0.001	5.0
	0.008 0.114 0.001 0.001 0.001 ND 0.002	(mg/L) (mg/L) 0.008

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3250 Southside river Rd., Farmington, NM 87401 Washbay Sludge.

Analyst

Review



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-14-03
Laboratory Number:	02-13-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-13-03
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory
•	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(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	
	Fluorobenzene	100%	
	1,4-difluorobenzene	100%	
	4-bromochlorobenzene	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 24803 - 24804, 24808.

Rev



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-14-03
Laboratory Number:	02-12-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-13-03
Condition:	N/A	Date Extracted:	02-12-03
		Analysis Requested:	TCLP

		Detection	Regulatory
₽	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
VC 1011 24	ND	0.0004	0.0
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	1
	Fluorobenzene	99%	·
	1,4-difluorobenzene	98%	
	4-bromochlorobenzene	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.

Review

Comments:

QA/QC for samples 24803 - 24804, 24808.



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

Client:	QA/QC	. Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-13-03
Condition:	N/A	Date Extracted:	02-12-03

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0200	0.0200	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0040	0.0039	0.0001	0.6%
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 24803 - 24804, 24808.

Analyst



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

Client:

QA/QC

Project #:

N/A

Sample ID:

Matrix Spike

Date Reported:

02-14-03

Laboratory Number:

24803

Date Sampled:

N/A

Sample Matrix:

TCLP Extract

Date Received:

N/A

Analysis Requested:

TCLP

Date Analyzed: Date Extracted: 02-13-03 02-12-03

Condition:

N/A

			Spiked			SW-846
1	Sample	Spike Sample	Det.		% Rec.	
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.0200	0.050	0.0698	0.0001	99.7%	47-132
Chloroform	ND	0.050	0.0500	0.0001	99.9%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98.0%	43-143
Benzene	0.0040	0.050	0.0538	0.0001	99.6%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	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 24803 - 24804, 24808.



EPA METHOD 8040 PHENOLS

Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-14-03
Laboratory Number:	02-13-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-13-03
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(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 24803 - 24804, 24808.

Analyst



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-14-03
Laboratory Number:	02-12 - TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-12-03
Condition:	Cool & Intact	Date Analyzed:	02-13-03
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 24803 - 24804, 24808.

Analyst



EPA METHOD 8040 PHENOLS Quality Assurance Report

Analysis Requested:

TCLP

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-12-03
Condition:	Cool & Intact	Date Analyzed:	02-13-03

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 24803 - 24804, 24808.

Wen t. Chrein



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-14-03
Laboratory Number:	02-13-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-13-03
		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
	4	2-fluorobiphenyl	101%

References:

Note:

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.

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

Comments:

QA/QC for samples 24803 - 24804, 24808.

Du L. Oylen



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-14-03
Laboratory Number:	02-12-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-12-03
Condition:	Cool and Intact	Date Analyzed:	02-13-03
		Analysis Requested:	TCLP

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(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.			W-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 24803 - 24804, 24808.

Analyst C, Oglewan



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-12-03
Condition:	N/A	Date Analyzed:	02-13-03
		Analysis Requested:	TCLP

	Sample	Duplicate		Det.	
	Result	Result	Percent	Limit	
Parameter	(mg/L)	(mg/L)	Difference	(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.

Note:

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.		

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

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Comments: QA/QC for samples 24803 - 24804, 24808.

Den C. Oplin



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

Client:	QA/QC	Project #:	N/A
Sample ID:	02-14-TCM QA/QC	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-14-03
Condition:	N/A	Date Extracted:	02-12-03

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.029	0.029	0.0%	0% - 30%
Barium	ND	ND	0.001	0.067	0.066	1.5%	0% - 30%
Cadmium	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.018	0.018	0.0%	0% - 30%
Lead	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.021	0.021	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	· · · · · · · · · · · · · · · · · · ·		Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	0.029	0.528	99.8%	80% - 120%
Barium	0.500	0.067	0.566	99.8%	80% - 120%
Cadmium	0.500	0.004	0.503	99.8%	80% - 120%
Chromium	0.500	0.018	0.508	98.1%	80% - 120%
Lead	0.500	0.022	0.521	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.021	0.520	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 24803 - 24804, 24808.

Analyst

CHAIN OF CUSTODY RECORD

AMETERS	Remarks		Jash bay	7					Date Time	1		Sample Receipt	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Received Intact	Cool - Ice/Blue Ice
ANALYSIS / PARAMETERS	ainers		\ -						Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	WROTECH INC.		ghway 64 Mexico 87401	2-0615
Project Location 3250 Souths: De River Dd Farmington, NM 87401	95026-001	Sample Samble Matrix	804 Sludge	7					Date Time Rec		Rec	ENVIROTE		5796 U.S. Highway 64 Farmington New Mexico 87401	(505) 632-0615
		Sample Sample Lab Number Date Time	2/10/03 1340 a 480/01/6						(a)	, (e	(ө				
Client / Project Name	Sampler: KPK	Sample No./ Identification	7-15						Relinquished by: (Signature)	Pelinquished by: (Signature)	Relinquished by: (Signature)				

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RECEIVED

MAR 2 7 2003

Environmental Bureau

Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR AFFROVAL TO ACCET	I BOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Conoco Phillips
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: SJ 31-6 #206
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "N" Sec4, T30N, R6W, Rio Arriba County	Project #96052-026
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste capproved 	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
Soil contaminated with Mobil Pegasus Special 15W-40 from a compressor security CWS, MSDS, and TCLP Metals attached.	MAR 2003 ON CONS. DIV. DIST. 3
Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of	the haul)cy
SIGNATURE Sanduar Jackson TITLE: Environmental Waste Management Fability Authorized Agent	Administrative Assistant DATE: 03/25/03
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	ُ وَ
	23.20s
(This space for State Use) APPROVED BY THE ENVIR	0
	DATE: 3/25/03 The 16 cologist DATE: 3/27/03

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

`	
Generator Name and Address:	2. Destination Name:
Conoco Phillips	Envirotech Soil Remediation Facility
5525 HWY. Le4-NBU 3004	Landfarm #2 Hilltop, New Mexico
Farminaton WM 87401	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
5531-Ce #206	
"M"Section 4, Twn 30N, 1	LAG GW
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Compressor Spillage	
mobil Pagasus specia	15W-40
Robert A. Wirte	inch representative for:
Conoco Ph. II RS Compo	<u> </u>
Conoco Phillips Compa	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-nazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
↑ RCRA Hazardous Waste Analysis ✓ Chain of Custody	TCLO metals
₹ Chain or custody	7
•	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
PAIN	WALLER
Name (Original Signature):	1 M WINGHNEN
The Change Cunencen	
Title: Suesa Jupe 27388	
Date: 2/25/03	

605840-00 MOBIL PEGASUS SPECIAL 15W-40 MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS SPECIAL 15W-40

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD. FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information: 800-662-4525 856-224-4644 CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:
This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.
See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous. EFFECTS OF OVEREXPOSURE: No significant effects expected. EMERGENCY RESPONSE DATA: Dark Amber Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

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

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2

liter (pint) ingested, seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may

be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 200(392) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA. NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

6. ACCIDENTAL RELEASE MEASURES

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

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

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product. STORAGE: Do not store in open or unlabelled containers. Store away

from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

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

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of

5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet

for specific details. APPEARANCE: Liquid

```
COLOR: Dark Amber
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ODOR: Mild

ODOR THRESHOLD-ppm: NE

AW: Ha

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

MELTING POINT C(F): NA

FLASH POINT C(F): > 200(392) (ASTM D-92)

FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.875
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: > 3.5
VISCOSITY AT 40 C, cSt: 103.0
VISCOSITY AT 100 C, cSt: 13.7
POUR POINT C(F): < -33(-28)
FREEZING POINT C(F): NE

VOC: < 5.00 (Wt. %); 0.358 lbs/gal

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal

applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

Dermal exposure of pregnant rats to representative formulations did not cause adverse effects in either the mothers or their offspring.

---CHRONIC TOXICOLOGY (SUMMARY) ---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Ames Test and IP-346.

---SENSITIZATION (SUMMARY)---

Representative Mobil formulations have not caused skin sensitization in guinea pigs.

---OTHER TOXICOLOGY DATA---

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: This product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur. It is not expected to be toxic to aquatic organisms.

Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

13. DISPOSAL CONSIDERATIONS

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

RCRA INFORMATION: The unused product, in our opinion, is not

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

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT. RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.
IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, MITI, and DSL. EU Labeling: EU labeling not required. U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chemicals reportable under SARA (313) toxic release program. The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS ----------22 XYLENES (0.01%) 1330-20-7 ZINC (ELEMENTAL ANALYSIS) (0.02%) 7440-66-6 22 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 22 PHOSPHORODITHOIC ACID, O,O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2: 1) (ZDDP) (0.26%) --- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CARC 21=LA RTK 2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293 3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTK 23=MN RTK 4=NTP CARC 9=OSHA CARC 14=TSCA 6 19=FL RTK 24=NJ RTK 5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 25=PA RTK

26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: NATURAL GAS ENGINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 1* 1* 0* 1* 1*, MPPEC: A, TRN: 605840-00, CMCS97: 971867, REQ: US - MARKETING, SAFE USE: L

EHS Approval Date: 27MAR2000

Legally required information is given in accordance with applicable 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 any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas

CHAIN OF CUSTODY RECORD

ANALYSIS / PARAMETERS	Remarks	Sample Receipt Peceived Intact Cool - Ice/Blue Ice
ANALYSIS / P	No. of Containers Slatistic Slatistic	Time Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) From the Mexico 87401 (505) 632-0615
Project Location	Client No. Cli. CS2 - O > C Sample Lab Number Matrix A 4 9 1 1 A 2 1	Date Time Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Formington, New Mexico 87401 (505) 632-0615
Client / Project Name Charles (2000)	Sample Sample Date Time	Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature)

Hall Environmental Analysis Laboratory

Date: 18-Mar-03

Collection Date: 2/20/2003 5:30:00 PM

CLIENT:

Envirotech

0303049

Client Sample ID: 24911/Soil Comp

Lab Order: Project:

Conoco/Phillips

Lab ID:

0303049-01

Matrix: EXTRACT

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
MERCURY, TELP LEACHED					Analyst: MAP
Mercury	ND	0.20	mg/L	10	3/14/2003
EPA METHOD 6010C: TCLP METALS					Analyst: NMO
Arsenic	ND	5.0	mg/L	1	3/13/2003 8:54:26 AM
Barlum	ND	100	mg/L	1	3/13/2003 8:54:28 AM
Cadmlum	ND	1.0	mg/L	1	3/13/2003 8:54:26 AM
Chromium	ND	5.0	mg/L	1	3/13/2003 8:54:26 AM
Lead	ND	5.0	mg/L	1	3/13/2003 8:54:26 AM
Selenium .	ND	1.0	mg/L	1	3/13/2003 8:54:26 AM
Silver	ND	5.0	mg/L	1	3/13/2003 9:33:30 AM

- - Value exceeds Maximum Contaminant Level

R - RPD outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109		www.nallenvironmental.com	ANALYSIS REQUESTA WALT	(]36	nO er eiO\ze	(Gasolin) (G.C.) (C.C.)	PPH ((8021) 4:1) 4:1) 4:1) 1:4:1) 1:4:1)	BE + - d 801 d 801 d 803 d 504 d 803 d 803 d 803 f, N. Cc f, NO ides /	HACK TW + X TM +	BTE) BTE) TPH TPH Volate EDC B310 RCRA B310 RCRA B320							1/03 Remarks: 1/029 Sample has been TCLP extracted	1
	Ment: Froject Name:	- }	Address: 5796 Us His Lat 1.	1 2 2 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2	87401 Project Manager.		Findher: (505) 1032-Clais Sampler FM	Samples Cold Cos ONo	Date Time Malrix Sample I.D. No. Number/Volume Preservative HEAL	DH YO'H	22/03 17:30 120:1 24911/ Spil 50ml 50ml							

MULL IN PROOFINE'S INTO

District I

1025 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RECEIVED

Form C-138 Revised March 17, 1999

MAR 2 7 2003 Environmental Bureau

Oil Conservation Division

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	PT SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Western Gas Resources
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Aneth Inlet Compressor at San Juan River Plant
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 99 Road 6500, Kirtland, New Mexico 87417	Project #92187-001b
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste approved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran	sport.
BRIEF DESCRIPTION OF MATERIAL:	4 1 1 200 C
New lube oil contaminated gravel from the Aneth Inlet Compressor at the	MAD coop
CWS and MSDS attached.	FECTIVED 2
	Dist. 3
	MAR 2003 FECTIVED OIL CONS. DIV. DIST. 3
Estimated Volumecy Known Volume (to be entered by the operator at the	end of the haul)cy
SIGNATURE Management Facility Authorized Agent TITLE: Environmental	1 Administrative Assistant DATE: 03/24/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	502280
(This space for State Use)	
APPROVED BY: Jones Rent TITLE: Envir	0/Engr DATE: 03/25/03
APPROVED BY: Muntage of the TITLE: Chuironn	until Colgist DATE: 3/27/03
	-



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cablast Secretary

Lori Wrotenbery
Director
Oli Conservation Division

CERTIFICATE OF WASTE STATUS

		1000 10
	1. Generator Name and Address	2. Destination Name:
	Western Gas Resources	Envirotech Inc. Soil Remediation Facility
	P.O. Box 70 99 Rd 6500	Landfarm #2
	Kirtland, New Mexico 87417	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	SAN JUAN RIVER PLANT	,
	99 Rd 6500	
	KIRTLAND N. MEN 874/7	
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	
	LUDE Oil CONTAMINATED	PRAVEL FROM THE ANETH ENLET RIVER PLANT (This WAS NEW OIL) MSDS SENTIN.
	Carperne AT EAU Zing	Pine Plant (This was also all) MASDS SENTE
	COMPRESSOR AT SAN OUAN	KIPER FIADI CIKIS WAS NEW STIT TOTOUS SENTIN,
T	Arlyn Thorson	
ابــــــــــــــــــــــــــــــــــــ	Print Name	representative for :
	7 77114 7 101114	
W	estern Gas Resources Inc. do hereby certification	y that, according to the Resource Conservation and Recovery Act (RCRA) and
		tory determination, the above described waste is: (Check appropriate
	fication)	
_		The state of the s
I	EXEMPT oilfield waste	NON-FXEMPT oilfield waste which is non-hazerdous by characteristic
		analysis or by product identification
und th	nat nothing has been added to the exempt or non	-exempt пол) azardous waste defined above.
-		
For N	ON-EXEMPT waste the following documentati	on is attached (check appropriate items):
	X MSDS Information	Other (description
	RCRA Hazardous Waste Analysis	••••
	Chain of Custody	
	wasto is in compliance with Regulated Levels (C 3.1 subpart 1403.C and D.	of Naturally Occurring Radioactive Material (NORM) pursuant to 20
	2171	
Name	(Original Signature): The Mouse	
Title:	Field Supervisor	
	· ·	
Date:	3/24/03	

Chevron HDAX® Low Ash Gas Engine Oil MSDS#7046 Rev#2 (06/06/00)

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Material Safety Data Sheet

Chevron HDAX® Low Ash Gas Engine Oil

MSDS: 7046

Revision #: 2 Revision Date: 06/06/00

Click here to search the product data sheet database

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON MUAX LOW ASH GRE Engine oil and HDAX LTG

PRODUCT NUMBER (8), CP6333325 CP6232327 CP6232328 CP6232331

SYNONYM: CHEVRON HDAX Low Ash Gas Engine Oil SAE 15W-40

CHEVRON HDAX Low Ash Gas Engine Oil SAE 30

CHEVRON HDAX Low Ash Gas Engine Oil SAE 40

CHEVRON HDAX LFG Gas Engine Oil SAE 40

COMPANY IDENTIFICATION

EMERGENCY TELEPHONE NUMBERS

Chevron Products Company Lubricance and Specialty Products 6001 Bollinger Canyon Rd., T3325/B10 San Ramon, CA 94583 Www.chevron-lubricants.com HEALTH (24 hr); (800)231-0623 or (510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887
Emergency Information Centers are located in U.S.A.
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Request: (800)414-6737 email: lubemediabulistron.com
Environmental, Safety, & Health Info: (925) 842-5535
Product Information: (800) 582 1835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 4 CHEVRON HDAX Low Ash Gas Engine Oil and HDAX LFG

CONTAINING

COMPONENTS AMOUNT LIMIT/QTY AGENCY/TYPE

LUBRICATING BASE OIL SEVEREIV REFINED PETROLEUM DISTILLATE > 80.004

5 mg/m2 (mist) ACGIH TWA 10 mg/m3 (mist) ACGIH STEL 5 mg/m3 (mist) USHA PEL

The MASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64761975, CAS 64742014, CAS 64742525, CAS 64742636, CAS 64741647, CAS 64742627, CAS 64742690, or CAS 72623837.

Chevron HDAX® Low Ash Gas Engine Oil MSDS#7046 Rev#2 (06/06/00)

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ADDITIVES INCLUDING THE FOLLOWING < 20.00¥

ZINC ALKARYL DITHIOPHOSPHATE Chemical Name: 21NC ALKARYL DITHIOPHOSPHATE CAS54261675 < 0.50₺ NONE

NA

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.

3. HAZARDS IDENTIFICATION

IMMEDIATE HEALTH EFFECTS

Not expected to cause prolonged or significant eye irritation.

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

4. FIRST AID MEASURES

BYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water. BKIN

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with boop and water. Wash or clean contaminated clothing and shoes before reuse. INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person. INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if quaghing or respiratory discomfort occurs,

6. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

Classification (29 CFR 1910,1200): Not classified by OSHA as flammable or combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 399F (204C) min.

AUTOIGNITION: NOA

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!

This material will burn although it is not easily ignited. 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 and water vapor and may produce oxides of Ca, P, N, S, Mo, Zn. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEADURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3887 International Collect Calls Accepted

ACCIDENTAL RELEASE MEASURES:

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. 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 proceduras for reporting and responding to larger releases.

7. HANDLING AND STORAGE

Container is not designed to contain pressure. Do not use presours to empty container or it may rupture with explosive force. Empty containers retain product residue (colid, liquid, and/or vapor) and can he dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

A. EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levelo of this material, the personal protective equipment listed below is recommended. The user should road and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under permain circumstances.

MAR 18'03

ENGINEERING CONTROLS

Use in a well-ventilated area. If user operations generate an cil mist, uoo process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H> RESPIRATORY PROTECTION:

No respiratory protection is normally required. It user operations generate an oil mist, determine if airborne concentrations are below the recommended mineral oil mist exposure limits. If not wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying respirators: particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Dark amber liquid.

VAPOR PRESSURE: NA

VAPOR DENSITY

(AIR=1):

BOTTING POINT: NDA FREEZING POINT: NDA

MELTING POINT:

SOLUBILITY:

Soluble in hydrocarbon solvents; insoluble in water. SPECIFIC GRAVITY: 0.87 - 0.88 @ 15.6/15.60

EVAPORATION RATE: NA

VISCOSITY:

11.0 - 14.4 cSt @ 100C (min.)

PERCENT VOLATILE

(VOL) :

NA

NA

AN

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

H2S may be released at high temperatures.

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

Chevron HDAX® Low Ash Gas Engine Oil MSDS#7046 Rev#2 (06/06/00)

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EYE RFFECTS:

The eye irritation hazard is based on an evaluation of the data for the components.

SKIN EFFECTS:

The skin irritation hazard is based on an evaluation of the data for the components.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on an evaluation of the data for the components.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on an evaluation of the data for 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 (NTF) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carelingenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

This product contains wind 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 orly 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. Upod motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermitment akin 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:

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

ENVIRONMENTAL FATE:

This material is not expected to be readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Oil dollection services are available for used oil recycling or disposal. 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.

Chevron HDAX® Low Ash Gas Engine Oil MSDS#7046 Rev#2 (06/06/00)

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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: NONE DOT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: Petroleum Lubricating vil - Not Mazardous Ly U.S. DOT.

ADR/RID Hazard class - Not applicable.

15. REGULATORY INFORMATION .

SARA 311 CATEGORIES:

1. Immediate (Acuto) Health Effects: NO 2. Delayed (Chronic) Health Effects: NO NO 3. Fire Hazard: 4. Sudden Release of Pressure Hazard: NO 5. Reactivity Hazard:

REGULATORY LISTS SEARCHED:

11=KJ RTK 22=TSCA Sect 5(a)(2) 01~SARA 313 23=TSCA Sect 6 12=CERCLA 302.4 02-MASS RTK 03=NTP Carcinogen 13*MN RTK 04=CA Prop 65-Carcin 14=ACGIH TWA 24=TSCA Sect 12(b) 25=TSCA Sect 8(a) 05=CA Prop 65-Repro Tox 15=ACGIH STEL 16=ACGIH Calc TLV 17=1ABC Group 2h 12-ACGIA DET 26=TSCA Sect 8(d) 27=TSCA Scct 4(a) 07=1ARC Group 2A 17=OSHA PEL 28 Canadian WHMI6 06=IARC Group 2B 09=SARA 302/304 18-DOT Marine Pollutant 39-08HA CEILING 30 Chevron STEL 09=SARA 302/304 19-Chevron TWA 20=EPA Carcinogan 10-PA RTK

The following components of this material are found on the regulatory lists indicated.

ZINC ALKARYL DITHIOPHOSPHATE

is found on lists: C1,11,

SEVERELY REFINED PETROLBUM DISTILLATS

is found on lists: 14,15,17,

EU RISK AND SAFETY LABEL PHRASES:

RES: May cause long-term adverse effects in the aquatic environment.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:

PETROLEUM OIL

New Jersey Right-To-Know trade secret registry number 01154100-5031P New Jersey Right-To-Know trade secret registry number 01154100-5063P WHMIS CLASSIFICATION,

This product is not considered a controlled product according to the critaria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0; HMIS RATINGS: Health 1, Plammability 1, Reactivity 0, (0-Least, 1-6light, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation. *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection

. . . . Chevron HDAX® Low Ash Gas Engine Oil MSDS#7046 Rev#2 (06/06/00)

Page 7 of 7

Association (NFPA) or the National Paint and Coating Association (for IMID ratingo).

REVISION STATEMENT,

This revision updates Sections 1, 2, 5, 9, 12, and 15.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value TWA - Time Weighted Average
STEL - Short-term Exposure Limit TPQ - Threshold Planning Quantity
RQ - Reportable Quantity PEL - Permissible Exposure Limit
Complete Co

CAD - Chemical Abstract Service Number
() - Change Has Been Proposed
NA - Nor Applicable - Colling Limit

A1-5 - Appendix A Categories

NDA - No Data Available

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (2400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 1627, Richmond, CA 94804

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

THIS IS THE LAST PAGE OF THIS MSDS

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED

Form C-138 Revised March 17, 1999

MAR 2 7 2003

Environmental Bureau
Oil Conservation Division

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Western Gas Resources
Verbal Approval Received: Yes \(\sum \) No \(\sum \)	5. Originating Site: Four Corners Compressor Station
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: Utah to New Mexico
7. Location of Material (Street Address or ULSTR) 17 Mi. E of Blanding Utah in Alkali Canyon. SE/4, Sec 19, T38S, R24E, SJC, Utah	Project #92187-002
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste c approved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Lube oil contaminated gravel and dirt from compressor station. This November of 2002 but was never received. CWS and October 2002 analytical attached.	MAR 2003 FLOORS DIV. CUI
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Estimated Volumecy Known Volume (to be entered by the operator at the e	end of the haul)cy
SIGNATURE Management Facility Authorized Agent TITLE: Environmental	Administrative Assistant DATE: 03/24/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>	2
(This space for State Use)	
APPROVED BY: Deny term TITLE: En VIO	Engr DATE: 3/25/03
APPROVED BY: Mantin Jil. TITLE: Environmen	Lugy DATE: 3/25/03 h) Geologot DATE: 3/27/03



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
GOVERNOOF

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

	1. Generator Name and Address	2. Destination Name:
	Western Gas Resources	Envirotech Inc. Soil Remediation Facility
	P.O. Box 70 99 Rd 6500	Landfarm #2
	Kirtland, New Mexico 87417	Hilltop, New Mexico
	3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR);
	Four Corners Compressor Station	
	17 Miles East of Blanding, Utah, in Alkali Canyon	
	SE/4, Sec 19, T38S, R24E, San Juan County, Utal	h
	attach list of originating sites as appropriate	
	4. Source and Description of Waste	
	Lube oil contaminated gravel and dirt from compre	essor station.
į		
I,A	rlyn Thorson	ropresentative for :
	Print Name	
We	stern Gas Resources Inc. do hereby cartify that according	ng to the Resource Conservation and Recovery Act (RCRA) and
	mental Protection Agency's July, 1988, regulatory determina	
classific		
	St	
E		EMPT officed waste which is non-hazardous by characteristic or by product identification
	anaryoro	oy product identification
and that	nothing has been added to the exempt or non-exempt non-	hazardous waste defined abovo.
For NO	N-EXEMPT waste the following documentation is attached	(check appropriate items):
		Other (description
	X RCRA Hazardous Waste Analysis	
	X Chain of Custody	
	aste is in compliance with Regulated Levels of Naturally C	Occurring Radioactive Material (NORM) pursuant to 20
NMAC	3.1 subpart 1403.C and D.	
Name (Original Signature):	
Title:_	Field Supervisor	
Date:_	Field Supervisor 3/24/03	

ENVIROTECH LABS

TRACE METAL ANALYSIS

Client:	Western Gas Resources	Project #:	92187-001	
Sample ID:	Grab	Date Reported:	10-11-02	
Laboratory Number:	23991	Date Sampled:	10-10-02	
Chain of Custody:	10328	Date Received:	10-10-02	
Sample Matrix:	Soll	Date Analyzed:	10-11-02	
Preservative:	Cool	Date Digested:	10-10-02	
Condition:	Cool & Intact	Analysis Needed: RCRA Metals Det. Regulatory		
	Concentration	Limit	Level	
Parameter	(mg/Kg)	(mg/K <u>g)</u>	(mg/Kg)	
Arsenic	0.006	0.001	5.0	
Barium	1.21	0.001	100	
Cadmium	0.001	0.001	1.0	
Chromium	0,001	0.001	5.0	
Lead	0.001	0.001	5.0	
Mercury	ND	0.001	0.2	
Selenium	0.002	0.001	1.0	
Silver	ND	0.001	5.0	

ND - Parameter not detected at the stated detection limit.

Roferences:

Method 3050B, Acid Digestion of Sediments, Sludges and Solls.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4 Corners Comp. Station.

Analyst

Revlew

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Cllent:	QA/QC	Project #:	N/A
Sample ID:	10-11-TM QA/QC	Date Reported:	10-11-02
Laboratory Number:	23991	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	10-11-02
Condition:	N/A	Date Digested:	10-10-02

Blank & Dupilcate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	on Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Barium	ND	ND	0.001	1,21	1.23	1.7%	0% - 30%
Cadmlum	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Splke	Spike	Sample	spiked	Percent	Acceptance
Conc. (mg/Kg)	Added		Sample	Recovery	Range
Arsenic	0.500	0.006	0.505	99.8%	80% - 120%
Barium	0.500	1.21	1.70	99.4%	80% - 120%
Cadmium	0.500	0.001	0.500	99.8%	80% - 120%
Chromium	0.500	0.001	0.501	100.0%	80% - 120 %
Lead	0,500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.002	0.501	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 23991.

Analyst

WESTI	ERN GA	AS RES	OURCI	ES 1	ID:1	5055 T	9862	210	ļ	1	\ 	IAR :	18,	03	10:0	19 N		02	·.04
10328		Remarks										Date Time	19/19/00 7:30.			Sample Receipt	Y N/A	d Intact	/Blue loe
CHAIN OF CUSTODY RECORD	ation ANALYSIS / PARAMETERS	37 - 00 salners	Sample Ž Matrix	19 Soil ()								Date Time Repeived by: (Signature)	10/0/02 73gn (LL)	Received by: (Signature)	Received by: (Signature)	FOVED TO		Farminaton New Mexico 87401	(505) 632-0615
CHAI	CHENT/ Project Name Project Location Unsylven Cus Resources 4 Conners	Sampler. Arty_thorsal alient No.	/ Sample Sample n Date	Gral 10.10.02 7:15 23991								Refinquished by: (Signature)	(It there	Refinquished bf. (Signature)	Refinquished by: (Signature)				

District I - (505) 393-6161 2 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

District IV - (505) 827-7131

c, NM 87410. مد

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

98059-023

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site T' Red # 1 R
2. Management Facility Destination Facility LF #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Holy 64	8. State New Mexico
7 Leasting of Material (Street Address of UI STD) SW/SW SLC 32	rriba
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be acceded accept; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted accepted accepted and the Generator's certification listing or testing will be approved. 	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
used oil contaminated soil from un on the ground. CWSAMSDS attached.	gine + compressor
Estimated Volume — cy Known Volume (to be entered by the op	
SIGNATURE: Management FacilityAuthorized Agent TYPE OR PRINT NAME: Morris D. Joung TEL	DATE: 4/2/02 5 EPHONE NO. (505) 632-0615
(This space for State Use)	
APPROVED BY: Deny tout TITLE: Envir	0/ Eng V DATE: 2/18/03
APPROVED BY: Marty July TITLE: Environm	mb/ (ordays+ DATE: 3/27/03



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

0615

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Universal Compression	Envirotech Soil Remediation Facility
3440 Morningstar Drive	Landfarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
TRed #IR	SW18W Sec 32 + 30N R 74
	Rio Arrian county
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
USED oil from Engine & comp on the ground	pressor
on the around	
9"	51
	<u></u>
1101	· • • • • • • • • • • • • • • • • • • •
I, Scot Rane)	representative for:
(Print Name)	do hereby certify that,
1988, regulatory determination, the above described EXEMPT oilfield waste Y NON-EXEM	y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic
analysis or	
analysis or and that nothing has been added to the exempt or no	by product identification
· •	by product identification n-exempt non-hazardous waste defined above.
and that nothing has been added to the exempt or not for NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	by product identification n-exempt non-hazardous waste defined above. tion is attached (check appropriate items):
and that nothing has been added to the exempt or note For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of No.	by product identification n-exempt non-hazardous waste defined above. tion is attached (check appropriate items): Other (description): daturally Occurring Radioactive Material (NORM) pursuant
and that nothing has been added to the exempt or note For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of N	by product identification n-exempt non-hazardous waste defined above. tion is attached (check appropriate items): Other (description): daturally Occurring Radioactive Material (NORM) pursuant





MOTC0070

Revised 26-NOV-1998

Printed 8-JAN-1999

EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade

30, 40, (15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information

1-281-293-5550

Transport Emergency
Medical Emergency

CHEMTREC 1-800-424-9300

1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

mponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	
If oil mist is generated, exposure lim	its apply.	

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

FIRST AID MEASURES(Continued)

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 202 C (396 F) (SAE 30)

204 C (399 F) (SAE 40) 193 C (379 F) (SAE 15W-40)

Method Pensky-Martens Closed Cup - PMCC.

Flash Point 250 C (482 F) (SAE 30) 257 C (495 F) (SAE 40)

257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40) Cleveland Open Cup - COC.

Method

·

Flash point(s) given above are typical values.

Autoignition

Not Available

NFPA Classification

Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

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.

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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

EAR STAIN TO A

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA) 5 mg/m3, 8 Hr. TWA

TLV (ACGIH) 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

AEL * (DuPont)

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point 700-1100 F (371-593 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Evaporation Rate Nil

Solubility in Water Insoluble

Odor Petroleum hydrocarbon (mild)

Form Liquid

Color Amber to Brown Specific Gravity 0.88 @ 60 F (16 C)

Density 7.34-7.36 lb/gal @ 60 F (16 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

REGULATORY INFORMATION(Continued)

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.

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient

Petroleum Hydrocarbons.

Reportable Quantity

Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.) CALIFORNIA "PROP 65"

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating 0 Health Flammability 1 Reactivity 0 NPCA-HMIS Rating Health 1 Flammability 1 0 Reactivity

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 Coordinator

Address

: Conoco Inc. : PO Box 2197

Telephone

: Houston, TX 77252 : 1-281-293-5550

Indicates updated section.

End of MSDS

Foust, Denny

From:

Kieling, Martyne

Sent:

Monday, February 24, 2003 4:11 PM

To: Cc: 'Lany Jackson' Foust, Denny

Subject:

RE: Analytical for Universal Projects

Landrea,

Please take 4 separate from Cell U15 for JN#98059-028. And a direct sample for JN#98059-023. I will attach this E-mail note on the J#4A that it was not received.

Thank you Martyne Kieling

---,--Original Message-----

-From: Lany Jackson [mailto:ljackson@envirotech-inc.com]

Sent: Monday, February 24, 2003 3:06 PM

To: Kieling, Martyne

Cc: Denny Foust

Subject: Analytical for Universal Projects

Martyne-

We can pull a direct sample for JN#98059-023, I Red #1R. All of the stuff with JN#98059-028 went into Cell U15. My question is whether it would be OK to just pull a composite of that cell or if you would like 4 distinct samples.

Also, one of the C-138 forms that you have under JN#98059-028, the Howell J#4A, was never received so it can be disregarded.

Let me know if a composite will suffice or if you need separate samples for each location so I can finish putting the work order together.

I appreciate it!

Landrea Jackson Environmental Administrative Assistant Envirotech Inc.



RECEIVED

MAR 27 2003

Environmental Bureau
Oil Conservation Division

COVER LETTER

March 14, 2003

Dennis Ajeman Envirotech 5796 US Highway 64 Farmington, NM 87401 TEL: (505) 632-0615 FAX (505) 632-1865

RE: Envirotech

Dear Dennis Ajeman:

Universal Compression

Order No.: 0303052

Hall Environmental Analysis Laboratory received 5 samples on 3/7/2003 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

CLIENT:

Envirotech

0303052

Lab Order: Project:

Lab ID:

Envirotech 0303052-01 **Date:** 14-Mar-03

Client Sample ID: 24997/CellGG-17

Collection Date: 3/6/2003 11:15:00 AM

Matrix: SOIL

Analyses	Result	Limit Qua	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: MAP
Mercury	0.047	0.033	mg/Kg	1	3/11/2003
EPA METHOD 6010B: METALS					Analyst: NMO
Arsenic	1.8	1.0	mg/Kg	1	3/14/2003
Barium	200	0.10	mg/Kg	1	3/14/2003
Cadmium	ND	0.10	mg/Kg	1	3/14/2003
Chromium	7.6	0.30	mg/Kg	1	3/14/2003
Lead	27	0.25	mg/Kg	1 .	3/14/2003
Selenium	ND	1.0	mg/Kg	1	3/14/2003
Silver	ND	0.25	mg/Kg	1	3/14/2003

IRed #1R 98059-023 Dated 4/2



* - Value exceeds Maximum Contaminant Level

- R RPD outside accepted recovery limits
- E Value above quantitation range

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NALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109 Tel. 505.345-3975 Fax 505.345.4107 www.hallenvironmental.com						Αυν-	mə2) 072	8	-											
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Project Name:	Project #:		Project Manager.	Don's Ajeman	pler. Kp.K	Samples Cold? Tyes INO	Number/Volume Heal No.	COCIO	2	3	5	\frac{1}{2}								Received By: (Signature) Received By: (Signature)
	Pro	5	S7401 Pro		San	San		Cest 66-17 4		242 U-1510E	رسالاك)-ل 155س	Cutton 1	ž					,		9) (1)
Client: Environch TAC	2 H.C.	10 1 10 TO			1632 - 0615 334 - 01 00	232-1815	Sample I.D. No.	7.4997	24998/	249991	3500	35001	-							Relinquished By: (Signature) Relinquished By: (Signature)
K-OF-CUSTOD	5796 WS	Harming ton			(505)		Matrix	3,65			1	_								-
		H			7	(505)	Time	11:15	32:50	11.30	12:15	11:45	_						Ļ	172,45 Time:
Client:	Address:				Phone #:	Fax #:	Date	3/4/03				r						ļ	į	Jule 103 Date:

Envirotech CLIENT:

0303052 Work Order:

Envirotech Project:

Method Blank QC SUMMARY REPORT

Date: 14-Mar-03

Sample ID MB-3233	Batch ID: 3233	Test Code	Test Code: SW7471	Units: mg/Kg		Analysis [Analysis Date 3/11/2003	Prep Date 3/10/2003	
Client ID:		Run ID:	MI-LA254_030311A	0311A		SeqNo:	172525		
Analyte	Result	Pal	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Mercury	Q	0.033		-					-
Sample ID MB-3254	Batch ID: 3254	Test Code	Test Code: SW6010A	Units: mg/Kg		Analysis [Analysis Date 3/14/2003	Prep Date 3/12/2003	
Client ID:		Run ID:	ICP_030314B	,		SeqNo:	173652		
Analyte	Result	Pal	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit	Qual
Arsenic	QN	1.0							
Barium	0.06754	0.10							ה
Cadmium	ΩN	0.10							
Chromium	0.174	0.30							7
Lead	QN	0.25							
Selenium	QN	1.0					٠		
Silver	Q	0.25							

ND - Not Detected at the Reporting Limit Qualifiers:

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

Date: 14-Mar-03

Envirotech CLIENT:

CLIENT:	Envirotech	Tr							OC CIMMADV DEDORT	TAKA D.	Vere	Ta
Work Order:	0303052								さつなっと	IMIAIN		14 <u>.</u>
Project:	Envirotech	h								Sar	Sample Duplicate	cate
Sample ID 0303052-04A	-04A	Batch ID: 3233	Test Code: SW7471	SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	003	Prep Da	Prep Date 3/10/2003	
Client ID: 25000/CellU-15 S	eIIU-15 S	,	Run ID:	MI-LA254_030311A	0311A		SeqNo:	172529				
Analyte		Result	POL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		Q	0.033	0	0	0	0	0	0	0	30	-
Sample ID 0303052-01A	-01A	Batch ID: 3254	Test Code:	Test Code: SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003	003	Prep Da	Prep Date 3/12/2003	
Client ID: 24997/CellGG-17	ellGG-17		Run ID:	ICP_030314B	_		SeqNo:	173661				
Analyte		Result	PQ	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		1.83	1.0	0	0	0	0	0	1.797	1.80	30	
Barium		193	0.10	0	0	0	0	0	197.6	2.39	30	
Cadmium		9	0.10	0	0	0	0	0	0	0	30	
Chromium		7.157	0:30	0	0	0	0	0	7.58	5.74	30	
Lead		27.52	0.25	0	0	0	0	0	27.41	0.396	30	
Selenium		Q	1.0	0	0	0	0	0	0	0	30	
Silver		QN	0.25	0	0	0	0	0	0.04943	0	30	

ND - Not Detected at the Reporting Limit

Qualifiers:

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

QC SUMMARY REPORT

Date: 14-Mar-03

Hall Environmental Analysis Laboratory

CLIENT: Envirotech
Work Order: 0303052
Project: Envirotech

Sample Matrix Spike Project:

Sample ID 0303052-04A	Batch ID: 3233	Test Code: SW7471	SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	003	Prep Da	Prep Date 3/10/2003	
Client ID: 25000/CellU-15 S		Run ID:	MI-LA254_030311A	10311A		SeqNo:	172530				
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1191	0.033	0.1604	0	74.3	20	150	0			
Sample ID 0303052-04A	Batch ID: 3233	Test Code: SW7471	SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	003	Prep Da	Prep Date 3/10/2003	
Client ID: 25000/CellU-15 S		Run ID:	MI-LA254_030311A	0311A		SeqNo:	172531				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1139	0.033	0.1604	0	71.0	20	1500	0.1191	4.52	20	
Sample ID 0303052-01A MS	Batch ID: 3254	Test Code	Test Code: SW6010A	Units: mg/Kg	į	Analysis	: Date	003	Prep Da	Prep Date 3/12/2003	
Client ID: 24997/CellGG-17		Run ID:	ICP_030314B	m		SedNo:	173655	10			
Analyte	Result	POL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	46.21	1.0	49.51	1.797	89.7	70	130	0			
Cadmium	43.64	0.10	49.51	0	88.1	70	130	0			
Chromium	52.05	0.30	49.51	7.58	95.9	20	130	0			
Silver	47.09	0.25	49.51	0.04943	95.0	20	130	0			

B - Analyte detected in the associated Method Blank	I
S - Spike Recovery outside accepted recovery limits	R - RPD outside accepted recovery limits
ND - Not Detected at the Reporting Limit	J - Analyte detected below quantitation limits
Qualifiers:	

Hall Environmental Analysis Laboratory

Envirotech 0303052 Work Order: CLIENT:

Envirotech Project:

Sample ID LCS-3233	Batch ID: 3233	Test Code: SW7471	: SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	,2003	Prep Date	Prep Date 3/10/2003	
Client ID:		Run ID:	MI-LA254_030311A	0311A		SedNo:	172526	56			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.172	0.033	0.1625	0	106	80	120	0			
Sample ID LCSD-3233	Batch ID: 3233	Test Code: SW7471	: SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	2003	Prep Dat	Prep Date 3/10/2003	
Client ID:		Run ID:	MI-LA254_030311A	0311A		SeqNo:	172527	27			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1625	0	105	80	120	0			
Sample ID LCS-3254	Batch ID: 3254	Test Code	Test Code: SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003	2003	Prep Dat	Prep Date 3/12/2003	
Client ID:		Run ID:	ICP_030314B	-		SeqNo:	173653	53			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	47.09	1.0	50	0	94.2	70	130	0			
Barium	39.86	0.10	50	0.06754	79.6	70	130	0			,
Cadmium	45.96	0.10	50	0	91.9	70	130	0			
Chromium	47.84	0.30	20	0.174	95.3	20	130	0			
Lead	46.55	0.25	. 20	0	93.1	70	130	0			
Sefenium	37.52	1.0	90	0	75.0	20	130	0			
Silver	48.05	0.25	20	0	96.1	0.2	130	0			

J - Analyte detected below quantitation limits

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Envirotech 0303052 Envirotech Work Order: CLIENT: Project:

Sample ID LCSD-3254	Batch ID: 3254	Test Code	Test Code: SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003	2003	Prep Da	Prep Date 3/12/2003	_
Client ID:		Run ID:	ICP_030314B			SeqNo:	173654	4			
Analyte	Result	Pol	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.21	1.0	20	0	90.4	22	130	47.09	4.09	30	
Barium	41.88	0.10	50	0.06754	83.6	20	130	39.86	4.95	30	-
Cadming	44.21	0.10	20	0	88.4	70	130	45.96	3.90	30	
Chromium	46.26	0.30	50	0.174	92.2	70	130	47.84	3.37	30	
7.00	42.59	0.25	20	0	85.2	70	130	46.55	8.87	30	
Selenium	35.13	1.0	50	0	70.3	70	130	37.52	6.58	30	

S - Spike Recovery outside accepted recovery limits ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

Qualifiers:

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Sample Receipt Checklist

Client Name ENV T	Date and Time Receive			3/7/03		
Work Order Number 0303052			Received by	AMG		
Checklist completed by Signature	lo 3	7/03				
Matrix:	Carrier name:	Greyhound				
Shipping container/cooler in good condition?		Yes 🗹	No 🗆	Not Present		
Custody seals intact on shippping container/coo	oler?	Yes 🗌	.No 🗔	Not Present	✓	
Custody seals intact on sample bottles?		Yes	No 🗌	Not Present	✓	
Chain of custody present?		Yes 🗹	No 🗆			
Chain of custody signed when relinquished and	received?	Yes 🗸	No 🗌			
Chain of custody agrees with sample labels?		Yes 🗹	No 🗆			
Samples in proper container/bottle?		Yes 🗹	No 🗆			
Sample containers intact?	•	Yes 🗹	No 🗆			,
Sufficient sample volume for indicated test?	•	Yes 🗹	No 🗌			
All samples received within holding time?		Yes 🗹	No 🗆			4
Water - VOA vials have zero headspace?	No VOA vials subn	nitted 🔽	Yes	No 🗆		
Water - pH acceptable upon receipt?		Yes	No 🗆	N/A 🔽		
Container/Temp Blank temperature?		5°	4° C ± 2 Accepta	ble		
COMMENTS:						
			=====			
Client contacted	Date contacted:		Perso	on contacted		
Contacted by:	Regarding:					
Comments:						
					-	
Corrective Action						

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

New Mexico es Department

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

98159-028

Hobbs, NM 88241-1980	Energy Minerals and Natural Resource
District II - (505) 748-1283	Oil Conservation Division
811 S. First Artesia, NM 88210	2040 South Pacheco Street
P'-trict III - (505) 334-6178	Santa Fe, New Mexico 87505
Nio Brazos Road	(505) 827-7131
District IV - (505) 827-7131	
TO MANAGE TELESCOPE OF THE SECOND	经产品的收入的基本的 "我们还是一个人的,我们还是一个人的人,不是一个人的人,不是一个人的人,

TO BEAUTION OF THE WORLD'S AND A STATE OF THE STATE OF TH	The state of the s
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 🔯	5. Originating Site Howell
2. Management Facility Destination Environte La Soil Remediation	6. Transporter Envirolect
3. Address of Facility Operator 5796 US Hwy 64 Jarmington, nm 87401	8. State NM
7. Location of Material (Street Address or ULSTR) "M" SICL, T30N,	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved. 	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
Used ungine oil contaminated s CWSYMSDS attached.	oil. 10 20 21 22 23 23 23 23 23 23 23 23 23 23 23 23
	On Char. 3
Estimated Volume cy Known Volume (to be entered by the open	erator at the end of the haul) ————— cy
SIGNATURE: Torris Journ TITLE: Pruside Waste Management Facility Authorized Agent	nt DATE: 7/15/02;
TYPE OR PRINT NAME: MONTIS D. YBUNG TEL	EPHONE NO. (505) 632 7615 2
APPROVED BY: Marty Leur TITLE: En viv	10/Eng/ DATE: 2/18/03 14/60/04/54 DATE: 3/27/03

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Universal Compression	Envirotech Soil Remediation Facility
3440 Morningstar Drive	Landfarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	M"5000 Town 030N Range 008W
(1000	2014
Attach list of originating sites as appropriate	
4. Source and Description of Waste USED ENG Oil Contaminated	60,
	′
. 2/.1.1/	
1, Phil Nagel (Print Name)	representative for:
(i mit radina)	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	waste is: (Check appropriate classification)
EVENIOT disiald waste Y NON EVEN	PT oilfield waste which is non-hazardous by characteristic
EXEMPT oilfield waste NON-EXEM	by product identification
-	-,
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentar	
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
Chain of Custody	
-	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•
Name (Original Signature):	
Name (Original Signature):	
Title: Si Address	
Title: <u>Supervisor</u> Date: 8-28-82	
Date: 8-28-82	





MOTC0070

Revised 26-NOV-1998

Printed 8-JAN-1999

EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade

30, 40, 15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information

Transport Emergency
Medical Emergency

1-281-293-5550

CHEMTREC 1-800-424-9300

1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

mponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	
If oil mist is generated, exposure limi	ts apply.	

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

FIRST AID MEASURES(Continued)

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 202 C (396 F) (SAE 30)

204 C (399 F) (SAE 40)

193 C (379 F) (SAE 15W-40) Pensky-Martens Closed Cup - PMCC.

Method Flash Point

250 C (482 F) (SAE 30) 257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)

Method Cleveland Open Cup - COC.

Flash point(s) given above are typical values.

Autoignition Not Available

NFPA Classification Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

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.

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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

t Ad Strains of the

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA) 5 mg/m3, 8 Hr. TWA

TLV (ACGIH) 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

AEL * (DuPont)

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point 700-1100 F (371-593 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Evaporation Rate Nil

Solubility in Water Insoluble

Odor Petroleum hydrocarbon (mild)

Form Liquid

Color Amber to Brown Specific Gravity 0.88 @ 60 F (16 C)

Density 7.34-7.36 lb/gal @ 60 F (16 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DĒTERMINATION

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

REGULATORY INFORMATION(Continued)

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

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

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

Reportable Quantity

Petroleum Hydrocarbons.

Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP'65"

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS NFPA Rating

Reactivity

Health	0
Flammability	1
Reactivity	0
NPCA-HMIS Rating Health Flammability	1 1

Personal Protection rating to be supplied by user depending on use conditions.

0

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 Coordinator Address : Conoco Inc. : PO Box 2197

> : Houston, TX 77252 Telephone : 1-281-293-5550

Indicates updated section. .

End of MSDS

Foust, Denny

From:

Kieling, Martyne

Sent:

Monday, February 24, 2003 4:11 PM

To: Cc: 'Lany Jackson' Foust, Denny

Subject:

RE: Analytical for Universal Projects

Landrea,

Please take 4 separate from Cell U15 for JN#98059-028. And a direct sample for JN#98059-023. I will attach this E-mail note on the J#4A that it was not received.

Thank you Martyne Kieling

----Original Message----

From: Lany Jackson [mailto:ljackson@envirotech-inc.com]

Sent: Monday, February 24, 2003 3:06 PM

To: Kieling, Martyne

Cc: Denny Foust

Subject: Analytical for Universal Projects

Martyne-

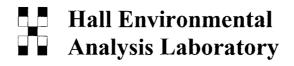
We can pull a direct sample for JN#98059-023, I Red #1R. All of the stuff with JN#98059-028 went into Cell U15. My question is whether it would be OK to just pull a composite of that cell or if you would like 4 distinct samples.

Also, one of the C-138 forms that you have under JN#98059-028, the Howell J#4A, was never received so it can be disregarded.

Let me know if a composite will suffice or if you need separate samples for each location so I can finish putting the work order together.

I appreciate it!

Landrea Jackson Environmental Administrative Assistant Envirotech Inc.



RECEIVED

MAR 2 7 2003

Environmental Bureau
Oil Conservation Division

COVER LETTER

March 14, 2003

Dennis Ajeman Envirotech 5796 US Highway 64 Farmington, NM 87401 TEL: (505) 632-0615 FAX (505) 632-1865

RE: Envirotech

Dear Dennis Ajeman:

Universal Compression

Order No.: 0303052

Hall Environmental Analysis Laboratory received 5 samples on 3/7/2003 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager MAR 2003

MAR 2003

CONS. DIV.

CONS. DIV.

CONS. DIV.

CONS. S. CONS. DIV.

CONS. S. CONS. CONS

CLIENT:

Envirotech

Lab Order:

0303052

Project:

Envirotech

Lab ID:

0303052-01

Date: 14-Mar-03

Client Sample ID: 24997/CellGG-17

Collection Date: 3/6/2003 11:15:00 AM

Matrix: SOIL

Analyses	Result	Limit Qu	al Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: MAP
Mercury	0.047	0.033	mg/Kg	1	3/11/2003
EPA METHOD 6010B: METALS					Analyst: NMO
Arsenic	1.8	1.0	mg/Kg	1	3/14/2003
Barium	200	0.10	mg/Kg	1	3/14/2003
Cadmium	ND	0.10	mg/Kg	1	3/14/2003
Chromium	7.6	0.30	mg/Kg	1	3/14/2003
Lead	27	0.25	mg/Kg	1	3/14/2003
Selenium	ND	1.0	mg/Kg	1	3/14/2003
Silver	ND	0.25	mg/Kg	1	3/14/2003

IRed #1R 98059-023 Dated 4/2/



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

CLIENT:

Envirotech

Lab Order:

0303052

Project:

Envirotech

Lab ID:

0303052-02

Date: 14-Mar-03

Client Sample ID: 24998/CellU-15 SE

Collection Date: 3/6/2003 12:00:00 PM

Matrix: SOIL

Analyses	Result	Limit Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: MAP
Mercury	3.0	0.33	mg/Kg	10	3/11/2003
EPA METHOD 6010B: METALS					Analyst: NMO
Arsenic	1.7	1.0	mg/Kg	1	3/14/2003
Barium	560	0.10	mg/Kg	1	3/14/2003
Cadmium	ND	0.10	mg/Kg	1	3/14/2003
Chromium	11	0.30	mg/Kg	1	3/14/2003
Lead	3.8	0.25	mg/Kg	1	3/14/2003
Selenium	ND	1.0	mg/Kg	1	3/14/2003
Silver	ND	0.25	mg/Kg	1	3/14/2003



R - RPD outside accepted recovery limits

CLIENT:

Envirotech

Lab Order:

0303052

Project:

Envirotech

Lab ID:

0303052-03

Date: 14-Mar-03

Client Sample ID: 24999/CellU-15 NE

Collection Date: 3/6/2003 11:30:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: MAP
Mercury	0.16	0.033	mg/Kg	1	3/11/2003
EPA METHOD 6010B: METALS					Analyst: NMO
Arsenic	ND	1.0	mg/Kg	1	3/14/2003
Barium	84	0.10	mg/Kg	1	3/14/2003
Cadmium	ND	0.10	mg/Kg	1	3/14/2003
Chromium	92	0.30	mg/Kg	1	3/14/2003
Lead	3.9	0.25	mg/Kg	1	3/14/2003
Selenium	ND	1.0	mg/Kg	1	3/14/2003
Silver	ND	0.25	mg/Kg	1	3/14/2003



R - RPD outside accepted recovery limits

CLIENT:

Envirotech

Lab Order:

0303052

Project:

Envirotech

Lab ID:

0303052-04

Date: 14-Mar-03

Client Sample ID: 25000/CellU-15 SW

Collection Date: 3/6/2003 12:15:00 PM

Matrix: SOIL

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: MAP
Mercury	ND	0.033	mg/Kg	1	3/11/2003
EPA METHOD 6010B: METALS					Analyst: NMO
Arsenic	1.6	1.0	mg/Kg	1	3/14/2003
Barium	110	1.0	mg/Kg	10	3/14/2003
Cadmium	ND	0.10	mg/Kg	1	3/14/2003
Chromium	1.6	0.30	mg/Kg	1	3/14/2003
Lead	1.6	0.25	mg/Kg	1	3/14/2003
Selenium	ND	1.0	mg/Kg	1	3/14/2003
Silver	ND	0.25	mg/Kg	1	3/14/2003



R - RPD outside accepted recovery limits

CLIENT:

Envirotech

Lab Order:

0303052

Project:

Envirotech

Lab ID:

0303052-05

Date: 14-Mar-03

Client Sample ID: 25001/CellU-15 NW

Collection Date: 3/6/2003 11:45:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY				-	Analyst: MAP
Mercury	0.23	0.033	mg/Kg	1	3/11/2003
EPA METHOD 6010B: METALS					Analyst: NMO
Arsenic	ND	1.0	mg/Kg	1	3/14/2003
Barium	100	1.0	mg/Kg	10	3/14/2003
Cadmium	ND	0.10	mg/Kg	1	3/14/2003
Chromium	(120)	3.0	mg/Kg	10	3/14/2003
Lead	3.2	0.25	mg/Kg	1	3/14/2003
Selenium	ND	1.0	mg/Kg	1	3/14/2003
Silver	ND	0.25	mg/Kg	1	3/14/2003

See Envirotech TCLP attached



R - RPD outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109	Tel. 505.345-3975 Fax 505.345.4107 www.hallenvironmental.com	ANTALVOIS DEGILECT		(lesei	Oses/D	ilossB (G (G	23' NO (805-1)	BE + - d 801 od 41 ll List od 50 or PA stals t, K, C t, K, C or PA	TM + 7 Methological Methologic	BTEX TPH	×	>×	>	X	X				Need report by 3-14-03	150 LOL (170x)
	Project Name:	Project .	t et					Samples Cold? Tyes No	Number/Volume Preservative HEAL No.	HgCl ₂ HCl 723052	(Lett 6.6-17 40.2)		3 Jan 3 Jan 3	ل المردي الم	1-15 mm				Peceived By: (Signature) (Received By: (Signature)	
	WHILL ENVIRONCH TAC		ST ST	tamogram am			Phone #: (505) 334-646	Fax#: (505/ 632-1865	Date Time Matrix Sample ID No		3/4/0s 11:15 Soil 24997	24998	1,36 24999	12:15 SEDO	11:45 35001				Date: Time: Relinquished By: (Signature)	

r/

Date: 14-Mar-03

CLIENT: Work Order: Project:	Envirotech 0303052 Envirotech							QC SUMMARY REPORT Method Blank	MAR	Y REPORT Method Blank	ORT Slank
Sample ID MB-3233 Client ID: Analyte	Batch ID: 3233 Result	Test Code: SW7471 Run ID: MI-LA25 PQL SPK ve	SW7471 Units MI-LA254_030311A SPK value SPK F	W7471 Units: mg/Kg II-LA254_030311A SPK value SPK Ref Val	%REC	Analysis SeqNo: LowLimit	Analysis Date 3/11/2003 SeqNo: 172525 %REC LowLimit HighLimit RPD Ref Val	3 D Ref Val	Prep Da %RPD	Prep Date 3/10/2003 %RPD RPDLimit	Qual
Mercury	QN	0.033									
Sample ID MB-3254 Client ID:	54 Batch ID: 3254	Test Code	le: SW6010A ICP_030314B	Units: mg/Kg		Analysis SeqNo:	Analysis Date 3/14/2003 SeqNo: 173652	e	Prep Da	Prep Date 3/12/2003	_
Analyte	Result	Pol	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	D Ref Val	%RPD	RPDLimit	Qual
Arsenic	UN COESTE	1.0									-
Cadmium	P6/90:0	0.10									ר
Chromium	0.174	0.30									7
Lead Selenium	2 2	0.25									
Silver	QN	0.25									

ND - Not Detected at the Reporting Limit Qualifiers:

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Sample Duplicate QC SUMMARY REPORT Envirotech 0303032 Envirotech Work Order: CLIENT: Project:

Date: 14-Mar-03

Sample ID 0303052-04A	Batch ID: 3233	Test Code: SW7471	: SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	003	Prep Da	Prep Date 3/10/2003	
Client ID: 25000/CellU-15 S		Run ID:	MI-LA254_030311A	10311A		SeqNo:	172529				
Analyte	Result	Pal	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD	%RPD RPDLimit	Qual
Mercury	QN	0.033	0	0	0	0	0	0	0	30	
Sample ID 0303052-01A	Batch ID: 3254	Test Code	Test Code: SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003	503	Prep Da	Prep Date 3/12/2003	
Client ID: 24997/CellGG-17		Run (D:	ICP_030314B			SeqNo:	173661				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.83	1.0	0	0	0	0	0	1.797	1.80	30	
Barium	193	0.10	0	0	0	0	0	197.6	2.39	30	
Cadmium	QN	0.10	0	0	0	0	0	0	0	30	
Chromium	7.157	0.30	0	0	0	0	0	7.58	5.74	30	
Lead	27.52	0.25	0	0	0	0	0	27.41	0.396	30	
Selenium	Q	1.0	0	0	0	0	0	0	0	30	
Silver	QN	0.25	0	0	0	0	0	0.04943	0	30.	

QC SUMMARY REPORT Envirotech Envirotech 0303052 Work Order: CLIENT: Project:

Sample Matrix Spike

Date: 14-Mar-03

Sample ID 0303052-04A	Batch ID: 3233	Test Code: SW7471	SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	003	Prep Date 3/10/2003	10/2003	
Client ID: 25000/CellU-15 S		Run ID:	MI-LA254_030311A	0311A		SeqNo:	172530				
Analyte	Result	Pal	SPK value	SPK value SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	RD Ref Val	%RPD RPD	RPDLimit (Qual
Mercury	0.1191	0.033	0.1604	0	74.3	20	150	0			
Sample ID 0303052-04A	Batch ID: 3233	Test Code: SW7471	SW7471	Units: mg/Kg	-	Analysis	Analysis Date 3/11/2003	103	Prep Date 3/10/2003	10/2003	
Client ID: 25000/CellU-15 S		Run ID:	MI-LA254_030311A	0311A		SeqNo:	172531				
Analyte	Result	PQL	SPK value	SPK value SPK Ref Val	%REC		LowLimit HighLimit RPD Ref Val	RD Ref Val	%RPD RPD	RPDLimit (Qual
Mercury	0.1139	0.033	0.1604	0	71.0	20	1500	0.1191	4.52	20	
Sample ID 0303052-01A MS	Batch ID: 3254	Test Code	Test Code: SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003	003	Prep Date 3/12/2003	12/2003	
Client ID: 24997/CellGG-17		Run ID:	ICP_030314B			SeqNo:	173655				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit R	RPD Ref Val	%RPD RPD	RPDLimit: (Qual
Arsenic	46.21	1.0	49.51	1.797	89.7	70	130	0			
Cadmium	43.64	0.10	49.51	0	88.1	70	130	0			
Chromium	55.05	0.30	49.51	7.58	95.9	70	130	0			
Silver	47.09	0.25	49.51	0.04943	95.0	70	130	0			

ND - Not Detected at the Reporting Limit Qualifiers:

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Laboratory Control Spike - generic **QC SUMMARY REPORT** Envirotech 0303052 Envirotech Work Order: CLIENT: Project:

Date: 14-Mar-03

Sample ID LCS-3233	Batch ID: 3233	Test Code	e: SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003		Prep Date 3/10/2003	
Client ID:		Run ID:	MI-LA254_030311A	0311A		SeqNo:	172526			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	o Ref Val	%RPD RPDLimit	Qual
Mercury	0.172	0.033	0.1625	0	106	80	120	0		
Sample ID LCSD-3233	Batch ID: 3233	Test Code: SW7471	: SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003		Prep Date 3/10/2003	
Client ID:		Run ID:	MI-LA254_030311A	0311A		SeqNo:	172527			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val) Ref Val	%RPD RPDLimit	Qual
Mercury	0.17	0.033	0.1625	0	105	80	120	0		
Sample ID LCS-3254	Batch ID: 3254	Test Code	Test Code: SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003		Prep Date 3/12/2003	_
Client ID:		Run ID:	ICP_030314B	_		SeqNo:	173653			
Analyte	Result	PaL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RP[RPD Ref Val	%RPD RPDLimit:	Qual
Arsenic	47.09	1.0	50	0	94.2	70	130	0		
Barium	39.86	0.10	50	0.06754	79.6	70	130	0		
Cadmium	45.96	0.10	20	0	91.9	20	130	0		
Chromium	47.84	0.30	50	0.174	95.3	70	130	0		
Lead	46.55	0.25	50	0	93.1	20	130	0		
Selenium	37.52	1.0	20	0	75.0	20	130	0		
Silver	48.05	0.25	50	0	96.1	70	130	0		

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Envirotech 0303052 CLIENT:

Work Order:

Envirotech Project:

Laboratory Control Spike Duplicate QC SUMMARY REPORT

											I
Sample ID LCSD-3254	Batch ID: 3254	Test Code:	SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003	03	Prep Da	Prep Date 3/12/2003	
Client ID:		Run ID:	ICP_030314B			SeqNo:	173654				
Analyte	Result	PaL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.21	1.0	20	0	90.4	70	130	47.09	4.09	30	
Barium	41.88	0.10	50	0.06754	83.6	70	130	39.86	4.95	30	
Cadmium	44.21	0.10	50	0,	88.4	70	130	45.96	3.90	30	
Chromium	46.26	0:30	50	0.174	92.2	20	130	47.84	3.37	30	
Lead	42.59	0.25	50	0	85.2	70	130	46.55	8.87	30	
Selenium	35.13	1.0	50	0	70.3	70	130	37.52	6.58	30	

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Sample Receipt Checklist

Client Name ENV T			Da	ite and I in	ie Receive	3/7/03
Work Order Number 0303052			Re	ceived by	AMG	
Checklist completed by Signature	10 3/	7/0	3 Date			
Matrix:	Carrier name:	<u>Greyho</u>	<u>und</u>			
Shipping container/cooler in good condition?		Yes 🗸	No	. 🗆	Not Present	
Custody seals intact on shippping container/coole	r?	Yes	No.	, 🗆	Not Present	✓
Custody seals intact on sample bottles?		Yes 🗆] No		Not Present	✓
Chain of custody present?		Yes 🗹	No.			
Chain of custody signed when relinquished and re	ceived?	Yes 🔽	. No			
Chain of custody agrees with sample labels?		Yes 🔽	. No			
Samples in proper container/bottle?		Yes 🗸	. No			
Sample containers intact?		Yes 🗹	. No			
Sufficient sample volume for indicated test?		Yes 🗹	. No			
All samples received within holding time?		Yes 🗹	No			
Water - VOA vials have zero headspace?	No VOA vials subn	nitted 🗸	Yes		No 🗌	
Water - pH acceptable upon receipt?		Yes 🗆] No		N/A 🗹	
Container/Temp Blank temperature?		5°	4° C ±	2 Accepta	ible	
COMMENTS:						
	=====		====		=====	========
Client contacted	Pate contacted:			Pers	on contacted	
Contacted by:	Regarding:					
Comments:						
Corrective Action						



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Cilent:	Envirotech Landfarm 2-5	Project #:	
Sample ID:	S-1	Date Reported:	03-22-03
Laboratory Number:	25089	Date Sampled:	03-15-03
Chain of Custody:	10718	Date Received:	03-15-03
Sample Matrix:	TCLP Extract	Date Analyzed:	03-21-03
Preservative:	Cool	Date Extracted:	03-17-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/ L)	(mg/L)
Arsenic	ND	0.001	5.0
Barium	2.06	0.001	100
Cadmium	0.005	0.001	1.0
Chromium	1.09	0.001	5.0
Lead	1.50	0.001	5.0
Mercury	0.003	0.001	0.2
Selenium	ND	0.001	1.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996

Methods 6010B Analysis of Metals (b) Inductively Coupled Plasma-Atomic Emis

SW-846, USEPA. December 1996

Note:

Regulatory Limits based on 40 CF

section 261.24, August 24, 1998

Comments:

Hilltop, NM NW of U-15.

Phristin my Was

MAR 2003



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

Client:	QA/QC	Project #:	N/A
Sample ID:	03-21-TCM QA/QC	Date Reported:	03-22-03
Laboratory Number:	25005	Date Sampled:	N/A
Śąmple Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	03-21-03
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Instrument Method Detection Sample Duplicate %	
Conc. (mg/L) Blank Blank Limit Difference	Range
Arsenic ND ND 0.001 ND ND 0.0%	0% - 30%
Barium ND ND 0.001 1.57 1.55 1.3%	0% - 30%
Cadmium ND ND 0.001 0.062 0.061 1.6%	0% - 30%
Chromium ND ND 0.001 3.85 3.82 0.8%	0% - 30%
Lead ND ND 0.001 1.66 1.65 0.6%	0% - 30%
Mercury ND ND 0.001 0.006 0.006 0.0%	0% - 30%
Selenium ND ND 0.001 ND ND 0.0%	0% - 30%
Silver ND ND 0.001 0.001 0.001 0.0%	0% - 30%

Spike	Spike	Sample	Maria de la compania	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	ND	0.499	99.8%	80% - 120%
Barium	0.500	1.57	2.06	99.5%	80% - 120%
Cadmium	0.500	0.062	0.560	99.6%	80% - 120%
Chromium	0.500	3.85	4.34	99.8%	80% - 120%
Lead	0.500	1.66	2.15	99.5%	80% - 120%
Mercury	0.050	0.006	0.055	98.2%	80% - 120%
Selenium	0.500	ND	0.498	99.6%	80% - 120%
Silver	0.500	0.001	0.500	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 25005, 25088 - 25089.

Analyst

Review Musters My Walters

CHAIN OF CUSTODY RECORD

Client / Project Name $LandfortMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM$	Sample	Project Location 111140 P Client No.	p / N M	No. of Containers	ANALYSIS / PARAMETERS		Remarks
			Matrix Sov.			7 da 2/2	51-0-15
Relingorshed by Asignature) (Date Time Rec 3 1 5 3 0	Received by: (Signature) Received by: (Signature)			Date Time
Relinquished by: (Signature)			Rec	Received by: (Signature)			
			ENVIROTECH INC	CHING.		Sample Receipt	Receipt Y N/A
			Farmington, New Mexico 87401 (505) 632-0615	Mexico 87401 2-0615		Received Intact Cool - Ice/Blue Ice	

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

District IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

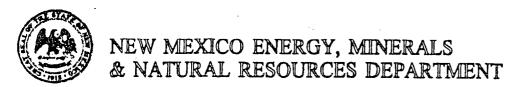
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

98059-028

REQUEST FOR	RAPPROVAL 1	TO ACCEPT	SOLID WASTE
-------------	-------------	-----------	--------------------

1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 🔟	5. Originating Site Riddle #250
2. Management Facility Destination Faculity LF# >	6. Transporter Envirotus
3. Address of Facility Operator 5796 US HOSY 64	8. State NM
7. Location of Material (Street Address or ULSTR) "P" SEC3 T30N,	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accommodated acceptance; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. 	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
Hublail Contaminated soil from illa manifold on drive train. (power un CWS4 MSDS attached.	l near exhaust
Estimated Volume — cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Movis J. Young TITLE: Provide Type or PRINT NAME: Movis D. Young TEL	DATE: 715102 TO DATE: 715102 T
APPROVED BY: Marty Jew TITLE: Environment	



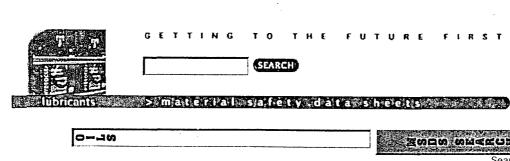
OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Universal Compression	Envirotech Soil Remediation Facility
3440 Morningstar Drive	Landfarm #2 Hilltop, New Mexico
Farmington, New Mexico 87401	nilitop, new nexteo
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Risole # 250	D"5eco 3
,	Foun 030N Ronge BOOW
	Konge 0070
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Lube oil from leak onea	or exhaust monifold on drive
140	
train, (power end).	·
`	
1, This Nagel (Print Name)	
1, Shil Negel	representative for:
(Print Name)	
according to the Resource Conservation and Recover	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	to the second of
	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentar	• • •
MSDS Information	Other (description):
/ RCRA Hazardous Waste Analysis Chain of Custody	
Criain of Custody	
This waste is in compliance with Regulated Levels of N	laturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
$\mathcal{P}_{\mathcal{A}}$	7
Name (Original Signature):	
Title: Saluria em	
Title: Syrvisos Date: Sr8-02	
Date: SN8-02	





Click here for the PDF version

EL MAR GEO

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

EL MAR GEO

MSDS Code: MOTC0055

Revision Date: 19-Oct-2000

"EL MAR" is a registered trademark of Conoco.

Product Use:

Natural Gas Engine Oil

Grade:

15W-40, 30/40

Conoco Blend Codes: 7511, 7512

MANUFACTURER/DISTRIBUTOR

Conoco Inc. P.O. Box 2197

Houston, TX 77252

MANUFACTURER/DISTRIBUTOR

Conoco Inc. PO Box 2197

Houston, TX 77252

PHONE NUMBERS

Product Information : 1-281-293-5550

Transport Emergency : CHEMTREC 1-800-424-9300 (domestic)

1-703-527-3887 (international; call collect)

Medical Emergency

: 1-800-342-5119 or 1-281-493-2767

: www.conoco.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

CAS Numbers

ક્ર

Highly refined base oils

64741-88-4

30-100

Proprietary additives

64741-89-5 0-60

0-15

If oil mist is generated, exposure limits apply. (See Section 8.)

3. HAZARDS IDENTIFICATION

--- EMERGENCY OVERVIEW ---

APPEARANCE / ODOR

Light brown liquid / mild petroleum hydrocarbon odor.

OSHA REGULATORY STATUS

This material is not known to be hazardous as defined under OSHA Regulations.

HMIS RATING

Health: 1; Flammability: 1; Reactivity: 0

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

Carcinogenicity Information

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

4. FIRST AID MEASURES

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

Notes to Physicians

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

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point (15W-40) : 205 C (401 F) (Minimum) Method: PMCC 235 C (455 F) (Typical) Method: COC
(30/40) 263 C (505 F) (Typical) Method: COC
Autoignition : Not Available
NFPA Classification : Class IIIB Combustible Liquid.

NFPA Rating : Extinguishing Media ~ : Health 0; Flammability 1; Reactivity 0

Water Spray, Foam, Dry Chemical, CO2.

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.

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.

6. 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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

7. HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry, well-ventilated place. Store away from oxidizers, heat, sparks and flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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 protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

EYE PROTECTION

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

OTHER PRECAUTIONS

Avoid any prolonged or repeated skin contact with "used" motor oil.

Wash thoroughly with soap and water after contact. Applicable Exposure Limits If oil mist is generated, exposure limits apply. : 5 mg/m3, 8 Hr. TWA (OSHA) (ACGIH) : 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3 TI.V 9. PHYSICAL AND CHEMICAL PROPERTIES Physical Data Vapor Pressure : Nil : >1 (Air=1.0) Vapor Density % Volatiles : Nil Evaporation Rate : Nil Solubility in Water : Insoluble Odor : Petroleum Hydrocarbon (mild). Form : Liquid. Color : Brown (light). Specific Gravity : 0.87-0.88 @ 60 F (16 C) : 7.31-7.34 lb/gal @ 60 F (16 C) 10. STABILITY AND REACTIVITY Chemical Stability Stable. Conditions to Avoid Heat, sparks, and flames. Incompatibility with Other Materials Incompatible or can react with oxidizers. Decomposition Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide. Polymerization Polymerization will not occur. TOXICOLOGICAL INFORMATION Animal Data Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors. "USED" Motor Oil -Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications. ______ 12. ECOLOGICAL INFORMATION Ecotoxicological Information No specific aquatic data available for this product. _____ 13. 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. Container Disposal Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other

containers should be disposed of in an environmentally safe manner.

14. TRANSPORTATION INFORMATION

Shipping Information

DOT: Not regulated. ICAO/IMO: Not restricted.

15. REGULATORY INFORMATION

U.S. Federal Regulations

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

SARA, TITLE III, 311/312

Acute : No
Chronic : No
Fire : No
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

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient

: Petroleum Hydrocarbons.

Reportable Quantity

: Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material may contain trace amounts of ingredients known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material is not known to contain any ingredient(s) subject to the Act.

Canadian Regulations

This is not a WHMIS Controlled Product.

16. OTHER INFORMATION

NOTE: This product or any other hydrocarbon-based lubricant should not be used in non-diaphragm compressors that produce "breathing air" unless the outlet is monitored continuously for carbon monoxide. These lubricants can produce carbon monoxide when subjected to high temperatures.

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 Coordinator

Address : Conoco Inc. > : PO Box 2197

> : Houston, TX 77252 Telephone : 1-281-293-5550

Indicates updated section.

End of MSDS

Questions can be directed to our MSDS administrator.

products services contacts news and info

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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

Rio Brazos Road

District IV - (505) 827-7131

~_.c, NM 87410

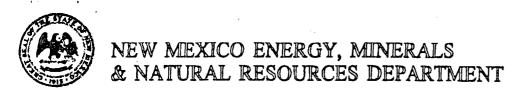
New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

98059-028

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Com ONLOSION
Verbal Approval Received: Yes No No	5. Originating Site Ornand
2. Management Facility Destination Sacility LF #2	6. Transporter Envirotuh
3. Address of Facility Operator 5796 US Hwy 64	8. State nm
7. Location of Material (Street Address or ULSTR) "H" Su.S. T3l ハ,	
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. 	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
Engine oil Contaminated soil. CWS & MSDS attached.	ON COSTES ON BOOM OF THE PROPERTY OF THE PROPE
Estimated Volume cy Known Volume (to be entered by the open	erator at the end of the haul) ————— cy
SIGNATURE: Waste Management Facility Authorized Agent) TYPE OR PRINT NAME: MOrris D. Joung TEL	DATE: 7/15/02 % EPHONE NO. (505) 632-0615
(This space for State Use)	
APPROVED BY: Deny Frank TITLE: Envivo	0/Engr DATE: 2/18/03
APPROVED BY: 2/15/15 TITLE: Envivorm	, , ,



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 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 3440 Morningstar Drive Farmington, New Mexico 87401 3. Originating Site (name): Oknard # 333 Attach list of originating sites as appropriate 4. Source and Description of Waste Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico Location of the Waste (Street address &/or ULST SEC 07 TOWN 03/N Range 00	TR):
3440 Morningstar Drive Farmington, New Mexico 87401 3. Originating Site (name): Oxnard #533 Attach list of originating sites as appropriate Landfarm #2 Hilltop, New Mexico Location of the Waste (Street address &/or ULST SEC 07 TOWN 03/N Range 00	TR):
Farmington, New Mexico 3. Originating Site (name): Oknard # 333 Attach list of originating sites as appropriate Hilltop, New Mexico Location of the Waste (Street address &/or ULST SEC 07 TOWN 03/N Range 00	TR): ogル
3. Originating Site (name): Oxnard #333 Attach list of originating sites as appropriate Location of the Waste (Street address &/or ULST SEC 07 TOWN 03/N Range 00	TR): ogw
OKNARD #333 SEC 07 TOWN 031N Range 00 Attach list of originating sites as appropriate	TR): いまい
Attach list of originating sites as appropriate	~~~~
A Company of Wares	
A Company of Warrange of Warra	
A Company of Warrange of Warra	
ENG. Oil Contamnetal Sort	
End of Confidence of	
I, Phi / Nage / representative for (Print Name)	r:
(Print Name)	•
do hereby cert	
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agen 1988, regulatory determination, the above described waste is: (Check appropriate classification)	icy's July,
EXEMPT oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by chara analysis or by product identification	acteristic
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.	
to 20 NMAC 3.1 subpart 1403.C and D.	•
to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature):	•
to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature):	•
to 20 NMAC 3.1 subpart 1403.C and D.	





MOTC0070

Revised 26-NOV-1998

Printed 8-JAN-1999

EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade

30, 40, 15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information Transport Emergency 1-281-293-5550

CHEMTREC 1-800-424-9300

Medical Emergency

1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

mponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	
If oil mist is generated, exposure l	imits apply.	

(Continued)

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

FIRST AID MEASURES(Continued)

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

202 C (396 F) (SAE 30) 204 C (399 F) (SAE 40) 193 C (379 F) (SAE 15W-40)

Pensky-Martens Closed Cup - PMCC. Method

Flash Point

250 C (482 F) (SAE 30) 257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)

Method Cleveland Open Cup - COC.

Flash point(s) given above are typical values.

Autoignition Not Available

Class IIIB Combustible Liquid.

Extinguishing Media

NFPA Classification

Water Spray, Foam, Dry Chemical, CO2.

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.

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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

PARAMETER STORY

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

(Continued)

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA) 5 mg/m3, 8 Hr. TWA

TLV (ACGIH) 5 mg/m3. 8 Hr. TWA, STEL 10 mg/m3

(Continued)

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

AEL * (DuPont)

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point 700-1100 F (371-593 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Evaporation Rate Nil

Solubility in Water Insoluble

Odor Petroleum hydrocarbon (mild)

Form Liquid

Color Amber to Brown Specific Gravity 0.88 @ 60 F (16 C)

7.34-7.36 lb/gal @ 60 F (16 C) Density

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete

combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

(Continued)

REGULATORY INFORMATION(Continued)

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

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient

Petroleum Hydrocarbons.

Reportable Quantity

Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS

Health	0
Flammability	1
Reactivity	0
NPCA-HMIS Rating Health Flammability Reactivity	1 1 0

Personal Protection rating to be supplied by user depending on use conditions.

(Continued:

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 Coordinator

Address

: Conoco Inc. : PO Box 2197

> Telephone : Houston, TX 77252 : 1-281-293-5550

Indicates updated section.

End of MSDS

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

District IV - (505) 827-7131

~_..c, NM 87410

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

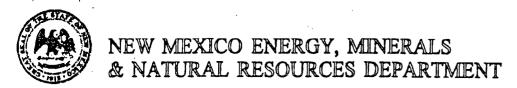
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

98059-028

REOL	JEST FOR	APPROVAL	TO ACCEPT	SOLID WASTE
TEG!	JESI FOR		I O AUGER I	SULID WAS IE

1. RCRA Exempt: Non-Exempt:	4. Generator Comprission
Verbal Approval Received: Yes 🔲 No 💢	5. Originating Site EPNG Com
2. Management Facility Destination Facility LF #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Howy 64 3. Address of Facility Operator 5796 US Howy 64	8. State NM
7. Location of Material (Street Address or ULSTR) " SIC32, T31N,	
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accommodated generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompressed to prove the material is not-hazardous and the Generator's certification listing or testing will be approved. 	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	•
Word ou contaminated Soil.	The state of the s
Used oil contaminated soil. CWS+MSDS attached.	FEB 2003 OIL CHET. 3
	20,50
Estimated Volume	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: maris 12 young TITLE: Propid	ent DATE: 7/15/02 %
TYPE OR PRINT NAME: MOYTIS D. YOUNG TEL	EPHONE NO. (505) 632-0615
(This space for State Use)	
	0/Engr DATE: 2/18/03
APPROVED BY: Muty 3545 TITLE: Env, hone	unkel Geologist DATE: 3/27/03



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:	2. Destination Name:
Universal Compression	Envirotech Soil Remediation Facility
3440 Morningstar Drive	Landfarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name): EPNG Com A ZA	Location of the Waste (Street address &/or ULSTR): "D" 550 32
	Trum 03/N
	Town 031N Range 008W
Attach list of originating sites as appropriate	
4. Source and Description of Waste USSP ENG. 61/ Contaminated	50/
I, Nagel (Print Name)	representative for:
(Print Name)	do hereby certify that,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documents MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ation is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): Proposition of the Supervisor Date: 8-28-02	
Title: Super 502	
Date: 8-28-02	





MOTC0070

Revised 26-NOV-1998

Printed 8-JAN-1999

EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade

30, 40, 15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information

1-281-293-5550

Transport Emergency

CHEMTREC 1-800-424-9300

Medical Emergency 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

> 00	
>80	
<20	
	<20

(Continued)

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

FIRST AID MEASURES(Continued)

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 202 C (396 F) (SAE 30)

204 C (399 F) (SAE 40)

193 C (379 F) (SAE 15W-40)

Method Pensky-Martens Closed Cup - PMCC. Flash Point 250 C (482 F) (SAE 30)

257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)

Method Cleveland Open Cup - COC.

Flash point(s) given above are typical values.

Autoignition Not Available

NFPA Classification Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

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.

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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

(Continued)

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA) 5 mg/m3, 8 Hr. TWA

TLV (ACGIH) 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

(Continued)

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

AEL * (DuPont)

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point 700-1100 F (371-593 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Evaporation Rate Nil

Solubility in Water Insoluble

Odor Petroleum hydrocarbon (mild)

Form Liquid

Color Amber to Brown Specific Gravity 0.88 @ 60 F (16.C)

Density 7.34-7.36 lb/gal @ 60 F (16 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete

combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DÓT

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

REGULATORY INFORMATION(Continued)

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

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

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

Reportable Quantity

Petroleum Hydrocarbons.

Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS

Reactivity

NFPA Rating
Health 0
Flammability 1
Reactivity 0
NPCA-HMIS Rating
Health 1
Flammability 1

Personal Protection rating to be supplied by user depending on use conditions.

0

(Continued)

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 Coordinator

Address

Telephone

: Conoco Inc. : PO Box 2197

>

: Houston, TX 77252 : 1-281-293-5550

Indicates updated section.

End of MSDS

'Kieling, Martyne

From:

Kieling, Martyne

Sent:

Monday, February 24, 2003 3:11 PM

To: Cc: 'Lany Jackson' Foust, Denny

Subject:

RE: Analytical for Universal Projects

Landrea,

Please take 4 separate from Cell U15 for JN#98059-028. And a direct sample for JN#98059-023. I will attach this E-mail note on the J#4A that it was not received.

Thank you Martyne Kieling

----Original Message----

From: Lany Jackson [mailto:ljackson@envirotech-inc.com]

Sent: Monday, February 24, 2003 3:06 PM

To: Kieling, Martyne

Cc: Denny Foust

Subject: Analytical for Universal Projects

Martyne-

We can pull a direct sample for JN#98059-023, I Red #1R. All of the stuff with JN#98059-028 went into Cell U15. My question is whether it would be OK to just pull a composite of that cell or if you would like 4 distinct samples.

Also, one of the C-138 forms that you have under JN#98059-028, the Howell J#4A, was never received so it can be disregarded.

Let me know if a composite will suffice or if you need separate samples for each location so I can finish putting the work order together.

I appreciate it!

Landrea Jackson Environmental Administrative Assistant Envirotech Inc. District I - (505) 393-6161 P. D. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Protect III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

c, NM 87410. ي.ر

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

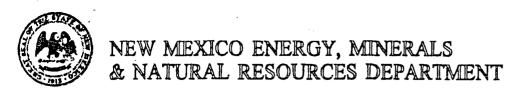
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

98059-028

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

112402011011111111111111111111111111111	002.0 17.1012			
1. RCRA Exempt: Non-Exempt:	4. Generator Compression			
Verbal Approval Received: Yes 🔲 No 🗹	5. Originating Site 1440			
2. Management Facility Destination Facility LF#2	6. Transporter Envirotech			
3. Address of Facility Operator Farmington, Nm 87401	8. State NM			
7. Location of Material (Street Address or ULSTR)				
9. Circle One:				
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. 				
All transporters must certify the wastes delivered are only those consigne	d for transport.			
Used ungin oil contaminated soil. CWS & MSDS attached. CWS & MSDS attached.				
Estimated Volume — cy Known Volume (to be entered by the op	erator at the end of the haul) ————— cy			
SIGNATURE: Morris Q Young TITLE: Preside	nt DATE: 7/15/02			
	EPHONE NO. (505) 632-01015			
(This space for State Use)				
APPROVED BY: Demy Front TITLE: Envir	0/ Engl DATE: 2/18/03			
ľ				



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 3440 Morningstar Drive Farmington, New Mexico 87401	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Howell J # 44	Location of the Waste (Street address &/or ULSTR): C'SEC 03 Town 030N RANGE 608W
Attach list of originating sites as appropriate 4. Source and Description of Waste USBD BNG B, I Con faminese.	
1, Thi / Nege/ (Print Name)	representative for: do hereby certify that,
1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic by product identification
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	
Title: <u>Syperwises</u> Date: <u>8-28-02</u>	





MOTC0070

Revised 26-NOV-1998

Printed 8-JAN-1999

EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade

30, 40, 15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information

1-281-293-5550

Transport Emergency

CHEMTREC 1-800-424-9300

Medical Emergency 1

1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

omponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	
If oil mist is generated, exposure l	imits apply.	— — — ·

(Continued)

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

FIRST AID MEASURES(Continued)

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

202 C (396 F) (SAE 30) Flash Point

204 C (399 F) (SAE 40)

193 C (379 F) (SAE 15W-40) Pensky-Martens Closed Cup - PMCC. Method

Flash Point

250 C (482 F) (SAE 30) 257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)

Method Cleveland Open Cup - COC.

Flash point(s) given above are typical values.

Autoignition Not Available

NFPA Classification Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

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.

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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers. waterways, or low areas.

Spill Clean Up

ENGRESS CO.

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

(Continued)

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA) 5 mg/m3, 8 Hr. TWA

TLV (ACGIH) 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

(Continued)

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

AEL * (DuPont)

 * AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point 700-1100 F (371-593 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Evaporation Rate Nil

Solubility in Water Insoluble

Odor Petroleum hydrocarbon (mild)

Form Liquid

Color Amber to Brown Specific Gravity 0.88 @ 60 F (16 C)

Density 7.34-7.36 lb/gal @ 60 F (16 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

(Continued:

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DÖT

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DĚTERMINATION

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

(Continued)

REGULATORY INFORMATION(Continued)

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

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

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

Reportable Quantity

Petroleum Hydrocarbons.

Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS NFPA Rating

Health Flammability Reactivity	0 1 0
NPCA-HMIS Rating Health	1
Flammability	1
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

(Continued)

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 Coordinator

Address

: Conoco Inc. : PO Box 2197

>

: Houston, TX 77252

Telephone

: 1-281-293-5550

Indicates updated section.

End of MSDS

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1303 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised March 17, 1999 Submit Original

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Thriftway Corporation
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Thriftway Refinery
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) West Hammond Road, Bloomfield	Project #02008-
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste approved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Paraffin produced in refining process. CWS attached.	MAR 2003
Estimated Volume 2bbl cy Known Volume (to be entered by the operator at the end	of the haul)cy
SIGNATURE Handred Resident Signature Handred Res	Administrative Assistant DATE: 03/06/03
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-061: (This space for State Use) APPROVED BY: APPROVED BY: TITLE:	5
(This space for State Use) Ne year Said to Howegone to Society Clean	
APPROVED BY: TITLE:	DATE:
APPROVED BY WY EVY TITLE:	DATE:

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (005) 334-8178 FAX (305)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
THEIRTWAY COEFERSTION	Envirotech Soil Remediation Facility
501 Aveport Dz.	Landfarm #2
FARMINGTON, NM	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Same.
THEIRING REFINERY WEST HAMMOND RD	
BLOOMFIELD, N.M.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Parazin Produces in Refinir	AC TROUBSS
	5 11133
·	
1. MIKE BEADORANT	representative for:
MIKE BEADOGANT (Print Name) THELEWAY COSP.	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	
EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic by product identification
anarysis or	by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentate	
MSDS Information RCRA Hazardous Waste Analysis	_✓ Other (description):
Chain of Custody	TARROGIN
	The state of the s
· · · · · · · · · · · · · · · · · · ·	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•
Name (Original Signature)	more
Title: FLEUD LECH.	
Date: 3-5-03	

⁹ <u>District I</u> ¹³
1625 N. French Dr., Hobbs, NM 88240
<u>District III</u>
1301 W. Grand Avenue, Artesia, NM 88210
<u>District IIII</u>
1000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Original Plus 1 Copy to Appropriate District Office

Revised March 17, 1999

Form C-138

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Halliburton Energy Services
Verbal Approval Received: Yes 🗌 No 🖂	5. Originating Site: Wash Bay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 4189 E. Main Street, Farmington	Project #92132-001
 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by a material is not-hazardous and the Generator's certification of origin. No waste of approved All transporters must certify the wastes delivered are only those consigned for transmitted by the second provided and the provided are only those consigned for transmitted by the second provided approved. BRIEF DESCRIPTION OF MATERIAL: Continuation of Wash Bay solids. CWS, Reaffirmation, and TCLP dated 6/3/02 attached. 	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be
Estimated Volume 75 cy Known Volume (to be entered by the operator at the end o	of the haul)cy
SIGNATURE Handred R. Lockso TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 02/20/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	5 8 8 8 8
(This space for State Use) APPROVED BY: Serry Jount TITLE: Envir	0/Engr DATE: 3/06/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-5178 Fox (506)334-517

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

·	
4189 Emoin AST	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Work By Some F	s above
Holding Arus	
Attach list of originating sites as appropriate	To Tale
4. Source and Description of Waste	MAR 2003
	¥2.
Some Oak	rapresentative for:
(Print Name)	Teplesontative for.
Hallebutman	enguseriles do hereby certify that,
according to the Resource Conservation and Recovery	ActARCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described w	aste is: (Check appropriate classification)
	Toilfield waste which is non-hazardous by characteristic 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 MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	on is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of Nato 20 NMAC 3.1 subpart 1403.C and D	eturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	070/-
Title: Maintenance Sys	ruisor
Date: 2-7-03	



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

Printed Name

Title / Agency / Aux

Address

4109 E. Main 8

Signature

Date

2-7-03



SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Halliburton Energy Services Wash Bay Sludge Project #:
Date Reported:

92132-001 06-06-02

Lab ID#:

22848

Date Sampled:

06-03-02

Sample Matrix: Preservative:

Soil

Date Received:

06-03-02

Condition:

Cool and Intact

Date Analyzed: Chain of Custody: 06-04-02 9938

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 7.72

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:

4109 E. Main.

Analyst

Review

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EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

	· ·		
Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wah Bay Sludge	Date Reported:	06-07-02
Laboratory Number:	22848	Date Sampled:	06-03-02
Chain of Custody:	9938	Date Received:	06-03-02
Sample Matrix:	TCLP Extract	Date Extracted:	06-04-02
Preservative:	Cool	Date Analyzed:	06-07-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulator <u>y</u> Limits	
Parameter	(mg/L)	(mg/L)	(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
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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:

4109 E. Main St.

Analyst C. Cefer



EPA METHOD 8040 PHENOLS

	·	•	
Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Sludge	Date Reported:	06-07-02
Laboratory Number:	22848	Date Sampled:	06-03-02
Chain of Custody:	9938	Date Received:	06-03-02
Sample Matrix:	TCLP Extract	Date Extracted:	06-04-02
Preservative:	Cool	Date Analyzed:	06-07-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

4109 E. Main St.

Analyst



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

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Sludge	Date Reported:	06-07-02
Laboratory Number:	22848	Date Sampled:	06-03-02
Chain of Custody:	9938	Date Received:	06-03-02
Sample Matrix:	TCLP Extract	Date Extracted:	06-04-02
Preservative:	Cool	Date Analyzed:	06-07-02
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.

04/00 4	Davanastan	Danaant Daaassams
QA/QC Acceptance Criteria	Parameter	Percent Recovery
as a do stocoptanto o mond		

2-fluorobiphenyl

101%

References:

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

 ${\sf Method\ 3510,\ Separatory\ Funnel\ Liquid-Liquid\ Extraction,\ SW-846,\ USEPA,\ July\ 1992.}$

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

4109 E. Main St.

Den C. Cylum Analyst

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Review



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Sludge	Date Reported:	06-06-02
Laboratory Number:	22848	Date Sampled:	06-03-02
Chain of Custody:	9938	Date Received:	06-03-02
Sample Matrix:	TCLP Extract	Date Analyzed:	06-06-02
Preservative:	Cool	Date Extracted:	06-04-02
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND	0.001	5.0
Barium	0.880	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.047	0.001	5.0
Lead	0.479	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4109 E. Main St.

-**y** Analvst Review Musta Musical Line Review



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	06-07-02
Laboratory Number:	06-07-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-07-02
Condition:	N/A	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(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
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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 22848.

Analyst C. Oglerin

Mister of Walters
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	06-07-02
Laboratory Number:	06-04-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-07-02
Condition:	N/A	Date Extracted:	06-04-02
		Analysis Requested:	TCLP

	-	Detection	Regulatory
Parameter	Concentration	Limit	Limits
	(mg/L)	(mg/L)	(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
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	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 22848.

Analyst C. Oplice



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

Client:	QA/QC	Project #: Date Reported:	N/A
Sample ID:	Matrix Duplicate		06-07-02
Laboratory Number: Sample Matrix:	22848	Date Sampled:	N/A
	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	06-07-02
Condition:	N/A	Date Extracted:	06-04-02

Duplicate					
	Sample	Sample	Detection		
	Result	Result	Limits	Percent	
Parameter	(mg/L)	(mg/L)	(mg/L)	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 22848.

Analyst

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Review



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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: 22848
Sample Matrix: TCLP Extract
Analysis Requested: TCLP

22848 Date
TCLP Extract Date
TCLP Date
N/A Date

Project #: N/A

Date Reported: 06-07-02

Date Sampled: N/A

Date Received: N/A

Date Analyzed: 06-07-02

Date Extracted: 06-04-02

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	0.0490	0.0001	98%	47-132
Chloroform `	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.0495	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Condition:

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 22848.

Analyst

Review Mustine Much



EPA METHOD 8040 PHENOLS

Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	06-07-02
Laboratory Number:	06-07-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-07-02
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 22848.

Analyst

(Mister of Walters



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	06-07-02
Laboratory Number:	06-04-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-04-02
Condition:	Cool & Intact	Date Analyzed:	06-07-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample 22848.

Analyst

Review Mosters



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QĆ	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	06-07-02
Laboratory Number:	22848	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-04-02
Condition:	Cool & Intact	Date Analyzed:	06-07-02
	·	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 22848.

Analyst



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:	06-07-02
Laboratory Number:	06-07-TBN	Date Sampled:	. N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	06-07-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

95%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for sample 22848.

Analyst C. Coplina

Pristure of Walters
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	06-07-02
Laboratory Number:	06-04-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-04-02
Condition:	Cool and Intact	Date Analyzed:	06-07-02
		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.

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 22848.

Analyst C. Cylina.

Mister m Walter



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:	06-07-02
Laboratory Number:	22848	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	06-04-02
Condition:	N/A	Date Analyzed:	06-07-02
		Analysis Requested:	TCLP

	Sample Result	Duplicate Result	Percent	Det. Limit
Parameter	(mg/L)	(mg/L)	Difference	(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 22848.

Analyst

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



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

Client:	QA/QC	Project #:	N/A
Sample ID:	06-06-TCM QA/QC	Date Reported:	06-06-02
Laboratory Number:	22848	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	06-06-02
Condition:	N/A	Date Extracted:	06-04-02

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	. Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.880	0.878	0.2%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.047	0.046	2.1%	0% - 30%
Lead	ND	ND	0.001	0.479	0.476	0.6%	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	Spike	Sample	e Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	ND	0.498	99.6%	80% - 120%
Barium	0.500	0.880	1.37	99.3%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.047	0.546	99.8%	80% - 120%
Lead	0.500	0.479	0.977	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	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 22848.

Analyst

CHAIN OF CUSTODY RECORD

ANALYSIS / PARAMETERS	47		7					Received by: (Signature)		(Signature)	Sample Receipt		Received Intact
	o .c ainers	,		•				sceived by: (Received by: (Signature)	Received by: (Signature)	HOH HOH	Highway 6	ton, New Mexico
Meiz St	100-25126	Sample Matrix	Soil					Date Time Re		Œ	ENVIROTECH INC	5796 U.S. Hichway 64	Farmington, New Mexico 87401
Project Location	Client No.	Lab Number	37848										
		Sample Time	(2:50										
95 Sex.	T. Brown	Sample Date	(a.3.02	*)	(e			
Client / Project Name	Sampler:	Sample No./ Identification	WASH-BATShabye 16.3.02					Relinquished by: (Signature)	y: (Si	Relinquished by: (Signature)			

'<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit Original Plus 1 Copy to Appropriate District Office

Revised March 17, 1999

Form C-138

REQUEST FOR APPROVAL TO ACCEP	1 SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: MM84, Highway 64
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) Mile Marker 84, Highway 64	Project #95026-004
 9. <u>Circle One</u>: A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste c approved 	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Fluids cleaned up at accident site.	73456783
CWS and analytical attached.	MAR 2003 OL COLS. DIV. DIST. 3
Estimated Volumecy Known Volume (to be entered by the operator at the en	nd of the haul)cy
SIGNATURE Jandula R. Authorized Agent TITLE: Environmental	Administrative Assistant DATE: 04/05/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>	508 F
APPROVED BY: Many 18th TITLE: Environment	5-gr DATE: 03/05/03 del /60/ys/ DATE: 03/10/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMEN

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WAST

- ・ つったりをかばれなりなり	2. Destination Name:
1. Generator Name and Address: Southside BJ Services River Road	Envirotech Soil Remediation Facility
A Market Rough	Landfarm #2
FARMINGTON, New Mexico	Hilltop, New Mexico
3. Originating Site (name): Highway 64	Location of the Waste (Street address &/or ULSTR):
New Maxis	
Attach list of originating sites as appropriate	
4. Source and Description of Waste ,	
Fluids deand up of accu	lut site.
1 2	
BJ Stryices (Print Name)	representative for:
BJ Schrices	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
EXEMPT oilfield waste	IPT oilfield waste which is non-hazardous by characteristic by product identification
- analysis of	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
- 41041 EVELINE	
For NON-EXEMPT waste the following documenta	
MSDS Information	tion is attached (check appropriate items): Other (description):
MSDS InformationRCRA Hazardous Waste Analysis	
MSDS Information	
MSDS InformationRCRA Hazardous Waste Analysis	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of I	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of I	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of I	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature):	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature): Title: Turk team Superscore	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature):	Other (description):

CHAIN OF CUSTODY RECORD

Sampler: Melissy M. Housey Sample No./ Sample 8 Identification Date	7	Project Location			ANALYSIS / PARAMETERS	RAMETERS	
Vo./		Client No. 950	95026-604	o. of ainers		H. C.	Remarks
	Sample	Lab Number	Sample Matrix				
BJ-5P11-1 4/5/02	2 1200	22463	Soil	<u> </u>	-	DN 100	
35-56-11-2 4/5/02	2 1216	<i>ከ%</i>	105	<u> </u>		ON 1CE	
BJ-5P11-3 4/5/02	1350	22465	Soil	7		04166	
					7		
							-
6	2						
Relinquished by (Signature)			Date Time Rece	Received by: (Signature)	P. Clerk	G Vin	Date Time
Relinquished by: (Signature)			Rec	Received by: (Signature)			
Relinquished by: (Signature)			Rece	Received by: (Signature)			
			ENVIROTE	VIROTECH INC.		Sample Receipt	
		1 5 5	5796 U.S. Highway 64 Farmington, New Mexico 87401	796 U.S. Highway 64 Igton, New Mexico 87401		Received Intact	Z >
			(505) 632-0615	-0615		Cool - Ice/Blue Ice	2



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	B.J. Services	Project #:	95026-004
		•	
Sample ID:	BJ - Spill - 1	Date Reported:	04-08-02
Laboratory Number:	22463	Date Sampled:	04-05-02
Chain of Custody No:	8991	Date Received:	04-05-02
Sample Matrix:	Soil	Date Extracted:	04-08-02
Preservative:	Cool	Date Analyzed:	04-08-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.7	0.1
Total Petroleum Hydrocarbons	1.7	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Analyst P. Que

Mister of Western Review



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	B.J. Services	Project #:	95026-004
Sample ID:	BJ - Spill - 2	Date Reported:	04-08-02
Laboratory Number:	22464	Date Sampled:	04-05-02
Chain of Custody No:	8991	Date Received:	04-05-02
Sample Matrix:	Soil	Date Extracted:	04-08-02
Preservative:	Cool	Date Analyzed:	04-08-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Analyst C. Quern

Mister M Waters



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	B.J. Services	Project #:	95026-004
Sample ID:	BJ - Spill - 3	Date Reported:	04-08-02
Laboratory Number:	22465	Date Sampled:	04-05-02
Chain of Custody No:	8991	Date Received:	04-05-02
Sample Matrix:	Soil	Date Extracted:	04-08-02
Preservative:	Cool	Date Analyzed:	04-08-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	21.9	0.2
Diesel Range (C10 - C28)	17.8	0.1
Total Petroleum Hydrocarbons	39.7	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Analyst C. Openson

Peview N Walters



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-08-TPH QA/QC	Date Reported:	04-08-02
Laboratory Number:	22463	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-08-02
Condition:	N/A	Analysis Requested:	TPH

	HCallipater i	เคติสต สต ร์	ะวัดส อกกลา สเรื่อยี่	ેલ્કોલાલોડિય	Accept Rence
Gasoline Range C5 - C10	01-07-02	2.5028E-002	2.5003E-002	0.10%	0 - 15%
Diesel Range C10 - C28	01-07-02	1.2696E-002	1.2671E-002	0.20%	0 - 15%

Blank Gone. ((mg/L ≒mg/kg)), * : : : :	(Craystelannite)(IO)(s 11 11 11 11 11 11 11 11 11 11 11 11 11	ឺក្ belegion
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Cons. (mg/kg)	igastinote)	ুটালালালা	%Diference	Accept Remote
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.7	1.7	0.0%	0 - 30%

Spike Cone-(me/kg)	Semile	Spike Adden	Solke Resulf	Recovery	Accept Range:
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	1.7	250	251	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 22463 - 22465.

Alem L. Geran

CHAIN OF CUSTODY RECORD

By Secures	HWY64, Blanco NM	ANALYSIS / PARAMETERS	AMETERS
Sampler: KPK	1	A.A. :: 02.15	Remarks
Sample No./ Sample Sample Identification Date Time	ļ	Aci Met	
Composite 4/8/12/1140	1 32470 50:1		
Relinquished by: (Signerbire)	Date Time Received by: (Signature) $4/8/9$ 13.20 $7/3$, \pm	Signature)	Date Time
Rejidquished by (Signature)	Received by: (Signature)		
Relinquished by: (Signature)	Received by: (Signature)	Signature)	
	ENVIROTECH INC	<u>DC</u>	Sample Receipt
			V
	5796 U.S. Highway 64	487401	Received Intact
	(505) 632-0615		Cool - Ice/Blue Ice



TRACE METAL ANALYSIS

Client:	B.J. Services	Project #:	95026-004
Sample ID:	Composite	Date Reported:	04-09-02
Laboratory Number:	22470	Date Sampled:	04-08-02
Chain of Custody:	8994	Date Received:	04-08-02
Sample Matrix:	Soil	Date Analyzed:	04-09-02
Preservative:	Cool	Date Digested:	04-09-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.041	0.001	5.0
Barium	3.08	0.001	100
Cadmium	0.042	0.001	1.0
Chromium	0.907	0.001	5.0
Lead	0.617	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.012	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Hwy 64, Blanco, NM.

Analyst

/ Mister of Wasters



TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-09-TM QA/QC	Date Reported:	04-09-02
Laboratory Number:	22470	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	04-09-02
Condition:	N/A	Date Digested:	04-09-02

∷Blank & Duplicate		Methodi Blank	Detection	n - F = Sample	Duplicate	1	Acceptance
Arsenic	ND	ND	0.001	0.041	0.040	2.4%	0% - 30%
Barium	ND	ND	0.001	3.08	3.10	0.6%	0% - 30%
Cadmium	ND	ND	0.001	0.042	0.042	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.907	0.904	0.3%	0% - 30%
Lead	ND	ND	0.001	0.617	0.620	0.5%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.012	0.012	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Samole	Salitera Salitera	. Peromit	Acceptance ::: Rance
0.500	0.041	0.539	99.6%	80% - 120%
0.500	3.08	3.57	99.7%	80% - 120%
.0.500	0.042	0.540	99.6%	80% - 120%
0.500	0.907	1.40	99.5%	80% - 120%
0.500	0.617	1.11	99.4%	80% - 120%
0.050	ND	0.049	98.0%	80% - 120%
0.500	0.012	0.511	99.8%	80% - 120%
0.500	ND	0.499	99.8%	80% - 120%
	0.500 0.500 0.500 0.500 0.050 0.050	0.500 3.08 0.500 0.042 0.500 0.907 0.500 0.617 0.050 ND 0.500 0.012	0.500 3.08 3.57 0.500 0.042 0.540 0.500 0.907 1.40 0.500 0.617 1.11 0.050 ND 0.049 0.500 0.012 0.511	0.500 3.08 3.57 99.7% 0.500 0.042 0.540 99.6% 0.500 0.907 1.40 99.5% 0.500 0.617 1.11 99.4% 0.050 ND 0.049 98.0% 0.500 0.012 0.511 99.8%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 22470.

Analyst

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised March 17, 1999 Submit Original

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: Energy Air Drilling
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: SJ 32-8 #21A
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Energy Air Drilling
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "O" Sec 15, T31N, R8W	Project #02058-001
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied to one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste approved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Diesel fuel contaminated soil.	
CWS and MSDS attached.	MAR 2003 F. DIV. B. D
Estimated Volume 2 cy Known Volume (to be entered by the operator at the end of	
SIGNATURE Waste Management Facility Authorized Agent TITLE: Environmenta	1 Administrative Assistant DATE: 06/06/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-061	<u>5</u>
APPROVED BY: 2 A 2541 TITLE: Envir	0/Engr DATE: 03/05/03

8- 8-02:11:04AM; ENVIROTECH

02058-01



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL COMESSYNTION DIVISION AZTED DISTRICT DEFICE 1900 RID BRAZOS ROAD AZTEU, NEW BEXICO 87419 (805) 314-8176 FAX (805)334-6176

GARY E. JOHNSON SOVERNOR JENNIFER A. SALIBBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	
I. Obligition (structure)	2. Destination Name: Brown Facility
	Landfarm #2
	Hilltop, New Mexico
()0 1G1 8-0 1 k-1 TUD	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Sec 15, Tain, R8W
S.J. 32-8 #21A	July CCIIII
3.3.360	5W14, 5E14
l .	E-nm 1
Attack list of originating sites as appropriate	
4. Source and Description of Waste	
DIESEL FUEL IN DIA	_ \
Dreste 19191 -	
01001, 01480	representative for:
(Point Name)	
	do hereby certify that,
according to the Resource Conservation and Receve	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
	MPT oilfield waste which is non-hezardous by characteristic
analysis o	r by product identification
	an analysis waste defined shove.
and they weeking has book added to the everynt of Di	
and that nothing has been added to the exempt or no	on-exempt non-maradous waste delated above.
	'
For NON-EXEMPT waste the following document	,
For NON-EXEMPT waste the following document MSDS Information	ation is attached (check appropriate items):
For NON-EXEMPT waste the following document	ation is attached (check appropriate items):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis	ation is attached (check appropriate items):
For NON-EXEINPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of	ation is attached (check appropriate items):
For NON-EXEINPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of	ation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	ation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of	ation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	ation is attached (check appropriate items): Other (description):
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For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature):	ation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature):	ation is attached (check appropriate items): Other (description):





NAVAJO REPINING COMPANY P. O. BOX 159 ARTESIA, NM 88211-0159 (505) 748-3311, (505) 365-8364, (505) 365-8365 (24 Hours)

MATERIAL SAFETY DATA SHFFT

EMERGENCY PHONE NUMBERS:

CHEMTREC: 1-800-424-9300 (for fire, spill and emergency response information) NEW MEXICO POISON INFORMATION CENTER: 1-800-432-6866 (for poisoning) TEXAS (EL PASO) POISON INFORMATION CENTER: (915) 533-1244 (for poisoning) ARIZONA POISON INFORMATION CENTER: 1-800-362-0101 or (602) 253-3334 (for poisoning)

LOW SULFUR DIESEL FUEL

EECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: DIESEL FUEL

CAS NUMBER: 68476-34-6

CHEMICAL FAMILY: Petroleum Hydrocarbon

FORMULA: C10H22-C16H34

SYNONYMS: Diesel Fuel #2, Petroleum Distrillate, Diesel, #2 Fuel Oil

NA 1993, Highway Diesel, Off Road Diesel (if dyed red).



SECTION 2 DELYARDOUS HIGHTOTENTS SECTION 2

APPROX.

VOL\$ HAZARDOUS COMPONENTS CAS NO. TLV STEL PEL (OSHA IDLH DIESEL FUEL (containing) 68476-34-6 99 NA NA NA NA 10 ppm 91-20-3 10 ppm 250 Naphalene

OTHER INGREDIENT INFORMATION:

Sulfur in the form of mercaptans or hydrogen sulfide may be present greater than 0.05% by weight.

SECTION 3 - PHYSICAL DATA

BOILING POINT: -315-575°F

VAPOR PRESSURE: @100°F 25mm Hg

VAPOR DENSITY (AIR=1): N/A SOLUBILITY IN WATER: Insoluble

ODOR THRESHOLD: N/A

APPEARANCE AND ODOR: Clear to yellow liquid. Oily, petroleum odor. May be dyed red in off road usage (agricultural, mining, etc.).

SPECIFIC GRAVITY (WATER=1): 0.7-0.8

% VOLATILE BY VOLUME: N/A

EVAPORATION RATE: No data available

AUTOIGNITION TEMP: 490-546°F





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SECTIONS - PRECAUTIONS FOR SAYE HANDLING AND USE

- STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Contain spill. Use water fog to suppress vapor cloud. Use SCBA to avoid breathing vapors. Absorb liquid with sand or clay.
- WASTE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any water course.
- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: All equipment and storage containers should be properly grounded. This material is subject to OSHA and DOT regulation. Portable metal containers should be bonded to the storage container before transferring liquid.
- OTHER PRECAUTIONS: Avoid breathing vapors. Vapors may be explosive. Do not weld on containers unless properly cleaned and purged using safe work procedures. Trace amounts of hydrogen sulfide may be present in the product. Accumulation of hydrogen sulfide may occur in vapor spaces of confined spaces where this product is handled, stored or used.

SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION - SEASON

- RESPIRATORY PROTECTION: Use NIOSH\MSHA approved respiratory protection in areas exceeding exposure limits, the type to be determined by the degree of exposure.
- VENTILATION: Use in well ventilated area or provide ventilation to limit exposure to acceptable levels.
- والمالية المالية
- EYE/SKIN PROTECTION: Rubber gloves, face shields, goggles or safety glasses with side shields, coveralls.
- WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.
- NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 128 FOR ADDITIONAL EMERGENCY INFORMATION.

This information is believed to be accurate and as reliable as information available to us. We make no warranty or guarantee as to its accuracy and assume no liability from its use. Users should determine the suitability of the information for their particular purposes.



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

	REQUEST FOR	APPROVAL	TO ACCEPT	SOLID	WASTE
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REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: Universal Compression Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Washbay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Serranos
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3440 Morningstar Drive, Farmington	Project #98059-010
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste clapproved 	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	•
Wash bay water and sludge. CWS and TCLP attached.	MAR 2003
CWS and TCLT attached.	Secretary of the secret
Estimated Volumecy Known Volume (to be entered by the operator at the en	nd of the haul)cy
SIGNATURE Jack South TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 08/01/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	031803-5
(This space for State Use)	
APPROVED BY: Deny tour TITLE: Enviro/	Engr DATE: 03/05/03
APPROVED BY: Northern 355 TITLE: Environment	Lul Grolog, 22 DATE: 03/18/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMEN

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOB ROAD AZTEC, NEW MEXICO 87410 (508) 334-6178 Fox (503)334-6170

GARY E. JOHNSON GOVERNOR

MAR 2003

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: UNIVERSAL COMPRESSION, INC. 3440 MORNINGSTAR DRIVE EARMINGTON, NM A7401 3. Originating Site Inamel: UNIVERSAL COMPRESSION, INC. 3340 MORNINGSTAR DRIVE EARMINGTON, NM A7401 3. Originating Site Inamel: UNIVERSAL COMPRESSION, INC. 3340 MORNINGSTAR DRIVE FARMINGTON, NM 87401 Attach first of originating sites as appropriate 4. Source and Description of Waste WATER AND SLUDGE FROM WASHBAY I, Douglas N Clage WATER AND SLUDGE FROM WASHBAY I, Portuglas N Clage WATER AND SLUDGE FROM WASHBAY I, Portuglas N Clage WATER AND SLUDGE FROM WASHBAY I PORTUGE AND PRESSION ADDRESSION Appropriate classification and feecovery Act (RCRA) and Environmental Protection Agency's July 1988, regulatory determination, the above described waste is: (back appropriate classification) EXEMPT diffield waste ANDN-EXEMPT diffield 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 X 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): Description: Title: Lead Mechanic		
UNIVERSAL COMPRESSION, INC. 3440 MORNINGSTAR DRIVE PARMINGTON, NM 87401 3. Originating Site (name): UNIVERSAL COMPRESSION, INC. 3340 MORNINGSTAR DRIVE FARMINGTON, NM 87401 Attach (fiet of originating sites as appropriate 4. Source and Description of Waste WATER AND SLUDGE FROM WASHBAY I. Descalas N. Classes WATER AND SLUDGE FROM WASHBAY I. Print Name) [Print Name] [P	1. Generator Name and Address:	2. Destination Name:
3440 MORNINGSTAR DRIVE PARMINGTON NM AZAO1 3. Original gastie (name): UNIVERSAL COMPRESSION, INC. 3440 MORNINGSTAR DRIVE FARMINGTON, NM 87401 Attach field origineting site as appropriate 4. Source and Description of Waste WATER AND SLUDGE FROM WASHBAY I, Decaylas N. Classes WATER AND SLUDGE FROM WASHBAY I, Print Name) (Print N		Envirotech Soil Remediation Facility
BARNINGTON NM A7A01 3. Originating Site Inamel: UNIVERSAL COMPRESSION, INC. 3340 MORNINGSTAR DRIVE FARMINGTON, NM 87401 Attach first of originating sites as appropriate 4. Squrce and Description of Waste WATER AND SLUDGE FROM WASHBAY I, Desclas N. Classes WATER AND SLUDGE FROM WASHBAY I Print Name) [Print Name] [Print		
3. Originating Site (name): UNIVERSAL COMPRESSION, INC. 3440 MORNINGSTAR DRIVE FARMINGTON, NM 87401 Attach dist of originating sites as appropriate 4. Squrce and Description of Waste WATER AND SLUDGE FROM WASHBAY I, Description of Waste WATER AND SLUDGE FROM WASHBAY I Print Name) On Oresion do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and Environmental Proceeding to the Resource Conservation and Recovery Act (RCRA) and Environmental Proceeding to the Resource Conservation and Recovery Act (RCRA) and Environmental Proceeding to the Resource Conservation and Recovery Act (RCRA) and Environmental Proceeding States of Non-Exempt of the Appropriate description of Conservation 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 MSDS Information 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): Description Course Recovery Act (RCRA) Mech Apple Course Recovery Act (RCRA) Recove		MANAGE TO THE PROPERTY OF THE
3440 MORNINGSTAR DRIVE FARMINGTON, NM 87401 Areah list of originating sites as appropriate 4. Squrce and Description of Waste WATER AND SLUDGE FROM WASHBAY I, Douglas N. Claper 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 cliffield waste NON-EXEMPT cliffield 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 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): Lougher Machazer Title: Lead Mechazer		Location of the Waste (Street address &/or ULSTR):
WATER AND SLUDGE FROM WASHBAY I, Deciglas N. Classer (Print Name) (Print Name) (Print Name) (In Deciglas N. Classer (Print Name) (Print Name) (In Deciglas N. Classer (Print Name) (In Deciglas Name) (In Deciglas N. Classer (Print Name) (In Deciglas Name) (In Deciglas Name (Print Name) (In Deci	3440 MORNINGSTAR DRIVE	(washbay)
WATER AND SLUDGE FROM WASHBAY I, Douglas N. Classer (Print Name) 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	Attach list of originating situs as appropriate	
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 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): Name (Original Signature): Lead Mechanic	ri e	
according to the Resource Conservation and Recovery Act (HCRA) and Environmental Protection Agency's July 1988, regulatory determination, the above described waste is: (Check appropriate classification) EXEMPT oilfield waste	·	·
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 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): Name (Original Signature): Lead Mechanic		
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 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): Name (Original Signature): Lead Mechanic	1, Douglas N. Clapper (Print Name)	representative for:
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): Lead Mech Analysis C. Title: Lead Mech Analysis C.	according to the Resource Conservation and Recover	y Act (HCRA) and Environmental Protection Agency's July,
For NON-EXEMPT waste the following documentation is attached (check appropriate items): MSDS Information 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): Name (Original Signature): Lead Mech Anar C		
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MSDS Information 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): Name (Mach Anar C		
Name (Original Signature): Douglas Mc Clayse Title: Lead Mechanic	MSDS Information *** RCRA Hazardous Waste Analysis	ion is attached (check appropriate items): Other (description):
		aturally Occurring Radioactive Material (NORM) pursuant
	Name (Original Signature): Douglas Mc (Playage
Date: 8-1-02	Title: LeAd Mech Anic	
	Date:	



SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Sample ID:

Wash Bay Sludge Lab ID#: 23776 Sludge Sample Matrix:

Preservative: Condition:

Cool Cool and Intact

Universal Compression

Project #: Date Reported: Date Sampled: Date Received: Date Analyzed:

Chain of Custody:

09-10-02 09-06-02 09-06-02 09-10-02 10222

98059-010

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 6.97

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:

3440 Morning Star.



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compression	Project #:	98059-010
Sample ID:	Wash Bay Sludge	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	09-06-02
Chain of Custody:	10222	Date Received:	09-06-02
Sample Matrix:	TCLP Extract	Date Extracted:	09-09-02
Preservative:	Cool	Date Analyzed:	09-23-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0018	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0022	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
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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:

3440 Morning Star.

Analyst P. Que

Mister of Walters



EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	98059-010
Sample ID:	Wash Bay Sludge	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	09-06-02
Chain of Custody:	10222	Date Received:	09-06-02
Sample Matrix:	TCLP Extract	Date Extracted:	09-09-02
Preservative:	Cool	Date Analyzed:	09-23-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

3440 Morning Star.

Analyst

Review



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

0" 1	Habitanal Communica	Dusingt #	00050 040
Client:	Universal Compression	Project #:	98059-010
Sample ID:	Wash Bay Sludge	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	09-06-02
Chain of Custody:	10222	Date Received:	09-06-02
Sample Matrix:	TCLP Extract	Date Extracted:	09-09-02
Preservative:	Cool	Date Analyzed:	09-23-02
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.115	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.051	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:

3440 Morning Star.

Analyst C. Que

Review Dalters



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

5.0

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Universal Compression Wash Bay Sludge 23776 10222 TCLP Extract Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Needed:	98059-010 09-23-02 09-06-02 09-06-02 09-23-02 09-11-02 TCLP metals
Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic Barium Cadmium	0.016 2.84 0.004	0.001 0.001 0.001	5.0 100 1.0
Chromium Lead Mercury	0.001 0.002 ND	0.001 0.001 0.001	5.0 5.0 0.2
Selenium	0.004	0.001	1.0

ND - Parameter not detected at the stated detection limit.

References:

Silver

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

0.001

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.

ND

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3440 Morning Star.

Analyst

/ Mister of Warles
Review



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-23-02
Laboratory Number:	09-23-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-23-02
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vr. 1011. 11.	ND.	0.0004	0.0
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	ŅD	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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 23776, 23837 - 23838.

Analyst C. Office Christian C



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-23-02
Laboratory Number:	0909-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-23-02
Condition:	N/A	Date Extracted:	09-09-02
	•	Analysis Requested:	TCLP

1		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(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	
	Fluorobenzene	99%	
•	1,4-difluorobenzene	98%	
	4-bromochlorobenzene	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 23776, 23837 - 23838.

Analyst C. Quin



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

3-02
3-02
9-02

:		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ŅD	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0018	0.0018	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0022	0.0022	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 23776, 23837 - 23838.

Analyst

/ Mis Une Y) Walles

Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-23-02
Condition:	N/A	Date Extracted:	09-09-02

	A P 1		Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	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)	0.0018	0.050	0.0513	0.0001	99%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	, ND	0.050	0.0490	0.0001	98%	43-143
Benzene	0.0022	0.050	0.0517	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	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 23776, 23837 - 23838.

Analyst C. Cerum

/ Misture of Walters
Review



EPA METHOD 8040 PHENOLS

Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-23-02
Laboratory Number:	09-23-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	. N/A
Preservative:	N/A	Date Analyzed:	09-23-02
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection Limit	Regulatory Limit	
Parameter	(mg/L)	(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 23776.

Ale C. Que



EPA METHOD 8040 PHENOLS

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-23-02
Laboratory Number:	09-09-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-02
Condition:	Cool & Intact	Date Analyzed:	09-23-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample 23776.

Analyst

Mistine m Walters
Review



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-02
Condition:	Cool & Intact	Date Analyzed:	09-23-02
		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
I .		
	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 23776.

Analyst C. Cylin C. Analyst



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-23-02
Laboratory Number:	09-23-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-23-02
•		Analysis Requested:	TCLP

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(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 23776.

Analyst C. Cyluu

Mister of Walters_



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-23-02
Laboratory Number:	09-09-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-02
Condition:	Cool and Intact	Date Analyzed:	09-23-02
		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.

processing a constraint of the control of the contr		
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 23776.

Analyst

Review Walters



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	09-09-02
Condition:	N/A	Date Analyzed:	09-23-02
	•	Analysis Reguested:	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	0.115	0.114	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.051	0.051	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

The second secon		
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 23776.

Analyst C. Que

/ Wistin of Walters Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	09-23-TCM QA/QC	Date Reported:	09-23-02
Laboratory Number:	23776	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	09-23-02
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate	Instrument	Method		Carrier Carrier (1986) Allegania (1986)	e Duplicate		
Conc.(mg/L) Arsenic	Blank ND	Blank ND	Limit 0.001	0.016	0.016	Difference 0.0%	Range 0% - 30%
Barium	ND	ND	0.001	2.84	2.82	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND ·	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	. Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	0.016	0.515	99.8%	80% - 120%
Barium	0.500	2.84	3.32	99.4%	80% - 120%
Cadmium	0.500	0.004	0.503	99.8%	80% - 120%
Chromium	0.500	0.001	0.500	99.8%	80% - 120%
Lead	0.500	0.002	0.501	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.004	0.503	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 23776.

Analyst

/ Mister of Warters

CHAIN OF CUSTODY RECORD

Client / Project Name		Project Location					Γ
Universal Compression		3460 Horming S	Ster.	(ANALYSIS / PARAMETERS		
35		Client No.	0 0	of siners		Remarks	
No./ Sample ation Date	Sample Time	Lab Number	Sample Matrix				
Box 9.6.02 V	W:30	37776	مهل أد	_			
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ala e Pala mandra de Paris							
Relinquished by: (Signature)	Λ	Date 9-6.02	Time Sy KS	Received by: (Signature)	X	Date Time	
Relinquished by: (Signature)			Rece	Received by: (Signature))
Relinquished by: (Signature)			Recei	Received by: (Signature)			1
			IROTE	VIROTECH INC.			
		Farm	5796 U.S. Highway 64 nington, New Mexico 8	5796 U.S. Highway 64 mington, New Mexico 87401	Received Intact	z >	A A
			(505) 632-0615)615	Cool - Ice/Blue Ice	/Blue Ice	
							1

Edistrict I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

APPROVED BY:

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE				
1. RCRA Exempt: Non-Exempt:	4. Generator: Dial Oil Co.				
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Roadway				
 Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2 Transporter: Envirotech 					
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico				
7. Location of Material (Street Address or ULSTR) Section 34, T31N, R5W, Rio Arriba County Project #01011-003					
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 tran	sport.				
BRIEF DESCRIPTION OF MATERIAL:					
Diesel contamination cleaned from roadway cleanup.	23456783				
CWS and MSDS attached. MAR 2003 District to the state of the state o					
Estimated Volume 12 cy Known Volume (to be entered by the operator at the end o	f the haul)cy				
SIGNATURE Handle Rules TITLE: Environmental Waste Management Facility Authorized Agent	1 Administrative Assistant DATE: 08/19/02				
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	<u>5</u> Š				
(This space for State Use)	/r 1 - 07/ 10				



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

MAR 2002

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
[0]00] 334-6178 F48 (505)334-6170

GARY E. JOHNSON GOVERNOR

1. Generator Name and Address:

MAR 2003 Ci. School Div. List. 3

Ennifer A. Salisbury Cabinet Secretary

CERTIFICATE OF WASTE STATUS

2. Destination Name:

Dial O.1 Co. 3303 N. 125 Street	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
Bloomfield, NM 874/3	
3. Originating Site (name): Road way; 534, 7-3 HN, R-	Location of the Waste (Street address &/or ULSTR):
Rio Arriba Co NN	
Attach liet of originating sites as appropriate	
4. Source and Description of Waste Diesel Coutaminsted Soil	·
30,1	
1, W. Dee Whatley (Print Name)	representative for:
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	PT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or nor	exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documental MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of N	
to 20 NMAC 3.1 subpart 1403.C and D.	aturally Occurring Radioactive Material (NOHM) pursuant
Name (Original Signature): U , U	
Name (Original Signature): <u>V, D</u>	1 H

Material Safety Data Sheet



NO. 2 DIESEL FUEL

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

No. 2 Diesel Fuel

MSDS Code: GASC0220

Revised: 12-Oct-2000

Version: 3

CAS Number: 68476-34-6

Tradenames: Diesel Fuel No. 2, Low Sulfur

Diesel Fuel No. 2, High Sulfur

MANUFACTURER/DISTRIBUTOR

Conoco Inc. PO Box 2197

Houston, TX 77252

PHONE NUMBERS

Product Information : 1-281-293-5550

Transport Emergency : CHEMTREC 1-800-424-9300 or

1-703-527-3887 (international; call collect)

Medical Emergency : 1-800-342-5119 or 1-281-493-2767

WEB SITE : WWW.conoco.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Diesel Fuel, No. 2

100

Sulfur content: <0.05 wt.% in low sulfur fuel <0.5 wt.% in high sulfur fuel

Exposure limits

Petroleum distillate standard applies. (See Section 8.)

3. HAZARDS IDENTIFICATION

--- EMERGENCY OVERVIEW ---

CAS Number

APPEARANCE / ODOR

Red or Undyed (Clear or Straw-Colored) Liquid / Aromatic Odor

OSHA REGULATORY STATUS

This material is hazardous as defined under OSHA regulations. Combustible.

See below for health effects.

HMIS RATING: Health: 1; Flammability: 2; Reactivity: 0. NFPA RATING:

Health: 0; Flammability: 2; Instability: 0.

Potential Health Effects

Primary Routes of Entry: Skin, inhalation

The product may cause irritation to the eyes, nose, throat, lungs, and skin after prolonged or repeated exposure. Extreme overexposure or aspiration into the lungs may cause lung damage or death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater overexposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

Combustion Product - Carbon Monoxide:

Carbon monoxide decreases the ability of the blood to carry oxygen. Inhalation may cause headache, nausea, rapid respirations, vomiting, dizziness, confusion, impaired judgement, personality changes, memory impairment, weakness, shortness of breath, unconsciousness, convulsions and death if not treated. It may cause chest pains in persons with heart disease. Carbon monixde poisoning can cause pallor (whiteness) or cyanosis (blueness) of the skin and extremities.

High exposures to carbon monoxide may cause heart irregularities.

Carbon monoxide may adversely affect the unborn babies of pregnant women.

-----Carcinogenicity Information------

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

4. FIRST AID MEASURES

First Aid

INHALATION

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

SKIN CONTACT

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

EYE CONTACT

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

INGESTION

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

Notes to Physicians

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

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : 130 F (54 C)

Method : PMCC

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.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from sources of potential ignition.

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

Safeguards (Personnel)

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

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

NOTE: Vapors released from the spill may create an explosive atmosphere.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

7. HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)

Ground container when pouring. Keep away from heat, sparks and flames. Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor)

<u>تا المنظم بين بي بين أجوال في المنظم بين أن يرتش بالسياس بين المنظم المنظم المنظم والمنظم والمنظم بالمنظم المنظم المنظم</u>

and may explode in heat of fire.

Storage

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

RESPIRATORY PROTECTION .

Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Select appropriate NIOSH -approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

EYE PROTECTION

Safety glasses with side shields. Chemical splash goggles or face shield for spray/mists or if splashing can occur.

OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

Applicable Exposure Limits

Petroleum distillate standard applies.

PEL (OSHA) : 500 ppm, 2000 mg/m3, 8 Hr. TWA TLV (ACGIH) : None Established

TLV (ACGIH)

9. 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=1.0)
% Volatiles : Nil

Solubility in Water : Insoluble Odor : Aromatic. Form : Liquid.

Color : Red or Undyed (Clear or Straw-Colored)
Specific Gravity : 0.84-0.88 @ 60 F (16 C))

10. STABILITY AND REACTIVITY

Chemical Stability Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials
Incompatible or can react with strong oxidizers.

Decomposition

Carbon monoxide may be formed from incomplete combustion.

Polymerization

Polymerization will not occur.

11. 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 significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils. Other laboratory studies indicate that middle distillates caused the skin tumors by promoting, rather than initiating, the formation of tumors, so the effect is probably doserelated and low level exposure should not be carcinogenic.

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lungs and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen. The National Toxicology Program (NTP) listed diesel exhaust particulates as "reasonably anticipated to be a human carcinogen" (Report on Carcinogens, 9th edition, 2001).

Acute toxicity data from studies supported by the American Petroleum Institute with a generic #2 fuel oil sample:

Oral, LD50 (rats) : 7-21 mL/kg

Skin, LD50 (rabbits) : >5 mL/kg

Skin Irritation (rabbits; index, 0-8) : 3-4 Eye Irritation (rabbits; index, 0-110) : 1

Skin Sensitization (guinea pigs) : Non-sensitizing

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product. 13. 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. Container Disposal Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner. 14. TRANSPORTATION INFORMATION Shipping Information DOT Proper Shipping Name : Diesel fuel and the second second of the s Hazard Class : Combustible liquid
I.D. No. (UN/NA) : NA1993
Packing Group : III I.D. No. (UN/NA)
Packing GroupDOT.Label(s) : None DOT Placard : Combustible ICAO/IMDG Proper Shipping Name : Gas Oil Hazard Class UN/NA Number : UN1202

Packing Group : III

: Flammable liquid Label

Placard : Flammable

15. REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

SARA, TITLE III, 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.

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it meets criteria for being ignitable according to U. S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient

: Petroleum Hydrocarbons.

Reportable Quantity

: Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient Category

: Diesel Fuel Oil : Hazardous Substance.

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material.

Chronic Toxic Effects.

16. OTHER INFORMATION

Additional Information: None.

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.

Prepared By

: MSDS Coordinator

Conoco Inc.

Address

: PO Box 2197

Houston, TX 77252

Telephone

: 1-281-293-4386

Indicates updated section.

End of MSDS

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Compressor Systems Inc.
Verbal Approval Received: Yes No No	5. Originating Site: 31-6 #213
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Paul & Sons
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) "K" Sec5, T30N, R6W, SJC	Project #01038-007
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied be one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by a material is not-hazardous and the Generator's certification of origin. No waste capproved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran-	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Soil contaminated when screw compressor oil line broke covering the skid	and overflowing onto the ground.
CWS & MSDS attached. Estimated Volume 8 cy Known Volume (to be entered by the operator at the end of	MAR 2003 cy
SIGNATURE Handle R. Jackson TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 10/18/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505) 632-0615</u>	ەر ق ك
APPROVED BY: Deny fourt TITLE: Environ E	DATE: 3/06/03 La Crologist DATE: 3/18/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

QIL CONSERVATION DIVISION AZTED DISTRICT OFFICE 1960 RIO BRAZOS ROAD AZTEG, NEW MEXICO 07410 [506] 334-6170 Fax [805]334-6170

GARY E. JOHNSON GOVERNOR

JENNIPER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WAS

البرود و المستقبل المراج و الم	
1. Generator Name and Address:	2. Destination Name:
COMPRESSOR SYSTEMS SNC	Envirotech Soul Remediation Facility
5995 US HWY 64	Landfarm #2 Hilltop, New Mexico
FARMENGTON N.M 87401	
3. Originating Site Insme):	Location of the Waste (Street address &/or ULSTR):
31-6 #213 52C & RANGE 6W 1865	
. "K" SUST301 R6	W
Attach list of originating sites as appropriate	
A Sausa and Description of Weste	
SCREW COMPRESSOR BROKE OFF LE	INE COVERENG SKED AND OVERFLOWEND
ON to GROUND, ABOUT 75 GALLON	vo ot ose on Ground
2	
Pheuse Ray (Print Name)	representative for:
(Print Name)	
COMPRESSOR SYSTEMS AND	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
according to the resource Conservation and recover 1988, regulatory determination, the above described	
•	
	IPT oiffield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	
MSDS Information RCRA Hezardous Waste Analysis	Other (description):
Chain of Custody	
	Naturally Occurring Radioactive Material (NOAM) pursuant
o 20 NMAC 3.1 subpart 1403.C and D.	·
11	
Name (Original Signature):	Y
Title: SENSOR BLEVECE TECH	
Date: 10/18/02	







Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON HDAX NG Screw Compressor Oil

PRODUCT NUMBER(S): CPS255204 CPS255205

SYNONYM: CHEVRON HDAX NG Screw Compressor Oil ISO 150 CHEVRON HDAX NG Screw Compressor Oil ISO 68

COMPANY IDENTIFICATION

EMERGENCY TELEPHONE NUMBERS

Chevron Products Company Global Lubricants 555 Market St. Room 803 San Francisco, CA 94105-2870 HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500

Environmental, Safety, & Health Info: (415) 894-0703

Product Information: (800) 582-3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON HDAX NG Screw Compressor Oil

CONTAINING

COMPONENTS

AMOUNT
LIMIT/QTY
AGENCY/TYPE
HYDROTREATED DIST., HVY PARA
Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

CAS64742547 > 80.00% 5 mg/m3 (mist)

AS64742547 > 80.00% 5 mg/m3 (mist) ACGIH TWA 10 mg/m3 (mist) ACGIH STBL 5 mg/m3 (mist) OSHA PEL

ADDITIVES

< 20.00%

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control

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CHEVRON HDAX NG Screw Compressor Oil

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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.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EVE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil that may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of airborne levels above the recommended exposure limit.

4. FIRST AID MEASURES

EYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person. INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

Classification (29 CFR 1910,1200): Not classified by OSHA as flammable or

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X-002021 (01-89)

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possible, wear safety glasses with side shields as a good safety practice. SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted. physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H> RESPIRATORY PROTECTION:

No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Liquid.

pH:

NDA

VAPOR PRESSURE:

NA ·

VAPOR DENSITY

(AIR=1):

NA

BOILING POINT: NDA FREEZING POINT:

NDA

MELTING POINT:

NA

SOLUBILITY:

SPECIFIC GRAVITY:

Soluble in hydrocarbon solvents; insoluble in water.

DENSITY:

NDA

EVAPORATION RATE:

NA

VISCOSITY:

61.2 - 135 cSt @ 40c (Min.)

PERCENT VOLATILE

(VOL):

NA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

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

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CHEVRON HDAX NG Sc w Compressor Oil



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EYE EFFECTS:

The eye irritation hazard is based on data for a similar material.

SKIN EFFECTS:

The skin irritation hazard is based on data for a similar material.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data for a similar material.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data for a similar material.

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).

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE:

This material is not expected to be readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. 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

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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:

l1≖NJ RTK	22=TSCA Sect 5(a)(2)
12=CERCLA 302.4	23=TSCA Sect 6
13=MN RTK	24=TSCA Sect 12(b)
14=ACGIH TWA	25=TSCA Sect 8(a)
15=ACGIH STEL	26=TSCA Sect 8(d)
16-ACGIH Calc TLV	27=TSCA Sect 4(a)
17=OSHA PEL	28-Canadian WHMIS
18=DOT Marine Pollutant	29=OSHA CEILING
19=Chevron TWA	30=Chevron STEL
20=EPA Carcinogen	
	12=CERCLA 302.4 13=MN RTK 14=ACGIH TWA 15=ACGIH STEL 16=ACGIH Calc TLV 17=OSHA PEL 18=DOT Marine Pollutant 19=Chevron TWA

The following components of this material are found on the regulatory lists indicated.

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC is found on lists: 14,15,17,

EU RISK AND SAFETY STATEMENTS:

May cause long-term adverse effects in the aquatic environment.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0; HMIS RATINGS: Health 1; Flammability 1; Reactivity 0; (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). 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:

This is a new Material Safety Data Sheet

Revision Number: 0 Revision Date: 10/25/97 MSDS Number: 006852

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CHEVRON HDAX NG DW Compressor Oil

Page

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

TPQ - Threshold Planning Quantity

- Reportable Quantity

PEL - Permissible Exposure Limit

- Ceiling Limit

CAS - Chemical Abstract Service Number

Al-5 - Appendix A Categories

() - Change Has Been Proposed

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

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

THIS IS THE LAST PAGE OF THIS MSDS

Revision Number: 0

Revision Date: 10/25/97

MSDS Number: 006852

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3250 Southside River Road, Farmington	Project #95026-006
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste capproved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Diesel and gel contaminated media removed from containment area. CWS and MSDS attached.	MAR 2003
Estimated Volume 50bbl cy Known Volume (to be entered by the operator at the en	nd of the haul)cy
SIGNATURE Sandria Q. Jacks TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 11/20/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	<u>5</u>
APPROVED BY: Title: Envirol APPROVED BY: 259. TITLE: Environ	Engr DATE: 3/06/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

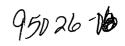
OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZUS ROAD AZTEC, NEW MEXICO 87410 (505) 334-8178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

Generator Name and Address:	2. Destination Name:
3250 Sooth Side River Rd.	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
Farmington N.M 87401	
3. Originating Site (name): BJ Services yord	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate	
4. Source and Description of Waste Description of Waste Contemuent or	media removal from
Les Baugh BIServices	representative for:
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
EXEMPT oilfield waste NON-EXEM analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ation is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	1
Title: Facilities Superior	C362
Date: 3/3/03	





BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE: SUPPLIER:

ADDRESS:

EMERGENCY TELEPHONE NUMBER

PREPARED BY:

DATE PREPARED:

GW-4

424203, 488011

Guar gum Gellant - water

BJ Services Company

5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(703)527-3887 Alaska and International

BJ Services Environmental Group

(281)351-8131

September 18, 2000

Supersedes: November 17, 1997

HMIS HAZARD INDEX

HEALTH:

1 1

FLAMMABILITY: REACTIVITY:

0

PERSONAL PROTECTION: e

<u>SECTION II - HAZARDOUS COMPONENTS</u>

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Guar gum	9000-30-0	>99	Irritant

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

>200°F (TOC)

UPPER EXPLOSION LIMIT(% BY VOL): LOWER EXPLOSION LIMIT(% BY VOL):

N.E.

AUTO-IGNITION TEMPERATURE:

N.E.

EXTINGUISHING MEDIA:

Use carbon dioxide or dry chemical for small fires;

aqueous foam or water for large fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and complete personal protective equipment when entering confined

areas where potential for exposure to vapors of products of combustion exists.

EXPLOSION DATA: Like all carbohydrate and most dry chemicals, a potential

dust explosion hazard exists if the dust concentration in air is too high. Good housekeeping procedures are

required to reduce this potential hazard.

HAZARDOUS COMBUSTION PRODUCTS: Fumes produced when heated to decomposition may

include: carbon monoxide, carbon dioxide.

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eve contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

No specific information available. Contains materials that are SKIN CONTACT:

essentially nonirritating, but contact may cause slight transient

irritation.

SKIN ABSORPTION: No specific information available. Contains materials that may be

practically nontoxic.

No specific information available. Contains materials that may cause EYE CONTACT:

eye injury which may persist for several days.

No specific information available. Dust may produce a respiratory INHALATION:

allergenic response and/or irritation in some individuals.

Contains materials that may be practically nontoxic. Ingestion of dry INGESTION:

powder may result in the material swelling in the throat possibly causing blockage of the throat and choking. Ingestion is not an

expected route of entry.

CHRONIC OVEREXPOSURE EFFECTS: Based on a medical study of exposed workers, some

individuals may develop a respiratory allergenic response to guar dust. Persons with a history of respiratory allergies may have those conditions aggravated by exposure to guar dust.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Guar gum	10 mg/m3 (total dust)	10 mg/m3 (total dust)

CARCINOGENICITY, REPRODUCTIVE EFFECTS: Not listed as carcinogen - IARC, NTP, or OSHA

TERATOGENICITY. MUTAGENICITY: No effects listed.

TOXICITY STUDIES:

LD(50) N.E.

LC(50) N.E.

N.E. = Not Established

N.A. = Not Applicable

MSDS for GW-4...Page 2

SECTION V - FIRST AID PROCEDURES

FOR EYES: Flush with plenty of water for at least 15 minutes and seek medical attention if

irritation persists.

FOR SKIN: Remove contaminated clothing and wash contact area with water and mild soap,

if available. If irritation develops or persists, contact a physician.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep

person warm, quiet and get medical attention.

FOR INGESTION: Fluids should be taken to prevent esophageal obstruction if dry material is

swallowed. Get medical attention.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Off white powder, bean-like odor

SPECIFIC GRAVITY: 1.3

VAPOR PRESSURE: N.A.

VAPOR DENSITY (air=1): N.A.

EVAPORATION RATE: N.A.

BOILING POINT: N.A.

FREEZING POINT: N.A.

SOLUBILITY IN H20: Forms

SOLUBILITY IN H20: Forms gel

pH: 6-8 at 0.5 wt/wt%

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Strong oxidizing agents HAZARDOUS POLYMERIZATION: Does not polymerize HAZARDOUS DECOMPOSITION PRODUCTS: See combustion products

SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION: The use of mechanical ventilation is recommended whenever

this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is

natural air movement.

RESPIRATORY PROTECTION: Dust mask - Where ventilation is inadequate, wear a NIOSH

approved dust or air-line respirator.

PROTECTIVE GLOVES: Rubber or neoprene

EYE PROTECTION: Goggles

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily

accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES: For wet material, dike spill and absorb with inert material and

collect for disposal. Caution: Wet material is slippery For dry powder, sweep or scoop-up and collect for disposal. Avoid

creating dust clouds and breathing dust.

WASTE DISPOSAL: If this product becomes a waste it does not meet the

requirements of a RCRA hazardous waste. Always dispose of

according to local/state/federal regulations.

N.E. = Not Established

N.A. = Not Applicable

MSDS for GW-4...Page 3

HANDLING & SPECIAL EQUIPMENT: Avoid breathing dust. Surfaces dusted with this product can

become slippery when wet.

STORAGE REQUIREMENTS: Store in a dry place. Keep container closed to avoid moisture

pickup. Avoid creating dust clouds and breathing dust when

handling.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME:

Not DOT Regulated

HAZARD CLASS:

N.A.

UN/NA NUMBER:

N.A.

PACKING GROUP W/ "PG":

N.A.

SUBSIDIARY RISK:

N.A.

REPORTABLE QUANTITY (RQ):

N.A.

EMERGENCY RESPONSE GUIDE #:

N.A.

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304

This product does not contain ingredients listed as an Extremely

Hazardous Substance.

SECTION 311/312

Immediate, Delayed

SECTION 313

This product does not contain ingredients (at a level of 1% or

greater) on the List of Toxic Chemicals.

OTHER REGULATORY INFORMATION

TSCA INVENTORY:

All of the components in this appear on the TSCA inventory.

CALIFORNIA PROP 65:

This product is not subject to California Proposition 65

notification.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 1 Status: Approved & Released MSDS

Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	1	Telephone number	09/18/00



BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER: ADDRESS:

EMERGENCY TELEPHONE NUMBER

International PREPARED BY:

DATE PREPARED:

August 6, 1998

Diesel #2

182848. 100365

Diesel Oil

Solvent

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

BJ Services Environmental Group

(281)351-8131

August 7, 2000 Supersedes:

HMIS HAZARD INDEX

HEALTH:

1

FLAMMABILITY:

2

REACTIVITY:

PERSONAL PROTECTION: h

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Diesel Fuel	68476-34-6	100	Combustible

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

130°F (TCC)

UPPER EXPLOSION LIMIT(% BY VOL):

6.0

LOWER EXPLOSION LIMIT(% BY VOL): **AUTO-IGNITION TEMPERATURE:**

0.4 494°F

EXTINGUISHING MEDIA:

Water spray, dry chemical, CO2,

foam

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Do not enter enclosed or confined space without proper protective equipment including

respiratory protection.

EXPLOSION DATA: Vapor forms explosive mixture with

air.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide,

and a variety of hydrocarbons

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: Prolonged or repeated contact with skin may cause

irritation or contact dermatitis.

SKIN ABSORPTION: Not

Not absorbed by skin.

EYE CONTACT: INHALATION:

Eye contact may cause irritation and redness.

Prolonged exposure may cause signs and symptoms of Central Nervous System depression such as headache, dizziness, loss of appetite, weakness, and loss of coordination. May also lead

to chemical pneumonia.

INGESTION:

Will cause nausea, vomiting, diarrhea, and

restlessness.

CHRONIC OVEREXPOSURE EFFECTS: Eye irritation, skin irritation leading to

dermatitis, CNS depression and chemical

pneumonia.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Diesel Fuel	N.E.	N.E.

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Petroleum distillate, a component of this product, has been shown to cause skin cancer in laboratory animals.

TERATOGENICITY, MUTAGENICITY:

No effects listed.

TOXICITY STUDIES:

LD(50) 9 ml/kg (oral-rat)

LC(50) N.E.

SECTION V - FIRST AID PROCEDURES

FOR EYES: Immediately flush with plenty of water for at least 15

minutes. If irritation persists, contact a physician.

FOR SKIN: Flush skin with water or wash with mild soap and water if

available. If irritation persists, contact a physician.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial

N.E. = Not Established

N.A. = Not Applicable

MSDS for Diesel #2...Page 2

respiration. Keep person warm, quiet and get medical

attention.

FOR INGESTION: DO NOT induce vomiting. Aspiration into the lungs will cause

severe chemical pneumonia. Seek medical attention

immediately!

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Clear or straw-colored or dyed blue/green/red

liquid with aromatic odor.

SPECIFIC GRAVITY: VAPOR PRESSURE: 0.84-0.88 @ 60°F 1 mm Ha @ 68°F

VAPOR DENSITY (air=1): EVAPORATION RATE:

>1 N.E.

BOILING POINT:

350-690°F (177-366°C)

FREEZING POINT: SOLUBILITY IN H20: N.E. Insoluble

:Hq

N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: HAZARDOUS POLYMERIZATION: Strong oxidizers

Does not polymerize See Combustion Products HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION: The use of mechanical ventilation is

> recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air

movement.

RESPIRATORY PROTECTION: As needed. Air purifying, half face piece,

organic vapor cartridge or canister.

PROTECTIVE GLOVES:

EYE PROTECTION:

Rubber or neoprene Safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT:

Eyewash bottles or other rinsing equipment

should be easily accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES: Eliminate ignition sources. Dike or contain

> spill to prevent material from entering waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and place

in salvage containers.

WASTE DISPOSAL: If this product becomes a waste it may meet

the requirements of a RCRA hazardous waste with the waste code D001. Always dispose of according to all local, state, and

N.E. = Not Established

N.A. = Not Applicable

MSDS for Diesel #2...Page 3

federal laws and regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid contact with eyes, skin and clothing.

> Avoid breathing vapors. Keep away from heat, sparks and open flames. Ground container when pouring. Keep containers

closed when not in use.

Store outdoors or in a detached area if STORAGE REQUIREMENTS:

> possible. Otherwise. store in well-ventilated area away from heat, sparks

and open flames.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

Diesel Fuel PROPER SHIPPING NAME:

HAZARD CLASS:

UN/NA NUMBER: NA1993 PACKING GROUP W/ "PG": PGIII SUBSIDIARY RISK: N.A. REPORTABLE QUANTITY (RQ): N.A. **EMERGENCY RESPONSE GUIDE #:** 128

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304 This product does not contain ingredients

listed as an Extremely Hazardous

Substance.

SECTION 311/312

Immediate, Delayed, Fire

This product does not contain ingredients (at SECTION 313

a level of 1% or greater) on the List of Toxic

Chemicals.

OTHER REGULATORY INFORMATION

All of the components in this appear on the TSCA INVENTORY:

TSCA inventory.

CALIFORNIA PROP 65: None of the chemicals on the current

Proposition 65 list are known to be present

in this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 2 Status: Approved & Released MSDS

Revision History:

N.E. = Not Established N.A. = Not Applicable

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	HMIS, II, III,IV,VI,IX,X	HMIS, CAS#, Fire & explosion data, LD50, Physical data, Handling precautions, Regulatory information	8-6-98
3	1	Telephone number	08/07/00



BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER:

ADDRESS:

EMERGENCY TELEPHONE NUMBER

International

PREPARED BY:

DATE PREPARED:

1998

PSA-1

488164

Organophilic clay

Component

BJ Services Company

5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

BJ Services Environmental Group

(281)351-8131

November 9, 2000 Supersedes: February 19,

HMIS HAZARD INDEX

HEALTH:

2

FLAMMABILITY:

0

REACTIVITY:

PERSONAL PROTECTION: f

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Crystalline silica (cristobalite)	14464-46-1	< 1.0	Irritant
Crystalline silica (quartz)	14808-60-7	< 1.0	Irritant

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

N.A.

UPPER EXPLOSION LIMIT(% BY VOL):

N.A. 73.6 g/m3

LOWER EXPLOSION LIMIT(% BY VOL): **AUTO-IGNITION TEMPERATURE:**

N.E.

EXTINGUISHING MEDIA:

Alcohol foam, carbon dioxide, dry

chemical, or water fog

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should have eye

protection and wear self-contained breathing apparatus. Use water spray to cool containers exposed to fire.

EXPLOSION DATA:

Normal precautions for organic dusts should be provided. Avoid dust

N.E. = Not Established

N.A. = Not Applicable

MSDS for PSA-1...Page 1

concentrations and ensure all equipment is properly grounded to prevent static discharges.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and ammonia

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation and eye contact

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT:

Not expected to cause irritation.

SKIN ABSORPTION: EYE CONTACT: Cannot be absorbed through the skin. May produce slight mechanical irritation.

INHALATION:

May cause slight irritation.

INGESTION:

Not expected to produce adverse effects.

CHRONIC OVEREXPOSURE EFFECTS: As with any nuisance dust, long term

exposure to concentrations above recommended exposure guidelines may overload the lung clearance mechanism and cause adverse lung effects and shortness of breath. Long term over exposure to products containing Crystalline Silica may cause silicosis. IARC has classified Crystalline Silica as 2A - Probably carcinogenic to humans.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Crystalline silica (cristobalite)	0.1 mg/m3	0.1 mg/m3
Crystalline silica (quartz)	10 mg/m3 - Total	10 mg/m3 - Total 5 mg/m3 - Respirable

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Not listed as carcinogenic - OSHA

Listed as a suspected carcinogen - IARC (Group 2A)

Listed as a suspected carcinogen - NTP (Respirable)

TERATOGENICITY, MUTAGENICITY:

No effects listed

TOXICITY STUDIES:

LD(50)

> 8,000 mg/kg (Rat)

LC(50)

N.É.

SECTION V - FIRST AID PROCEDURES

FOR EYES:

In case of contact, immediately flush eyes with plenty of

N.E. = Not Established

N.A. = Not Applicable

MSDS for PSA-1...Page 2

water for at least 15 minutes. Lift upper and lower lids and

rinse well under them. Get medical attention, preferably an

ophthalmologist if irritation occurs.

FOR SKIN: Flush all affected areas with plenty of water for several

minutes. Remove and wash any contaminated clothing and

shoes. Get medical attention if skin irritation occurs.

FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial

respiration. Keep person warm, quiet and get medical

attention.

FOR INGESTION: Seek medical attention. If person is conscious and medical

help is not readily available, give water and induce vomiting.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Odorless, light cream powder

SPECIFIC GRAVITY: 1.7 at 600°F

VAPOR PRESSURE:
VAPOR DENSITY (air=1):

EVAPORATION RATE:

BOILING POINT:

FREEZING POINT:

SOLUBILITY IN H20:

pH:

N.A.

N.A.

Insoluble

N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable INCOMPATIBLE MATERIALS: None known

HAZARDOUS POLYMERIZATION: Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can

produce oxides of carbon and

ammonia.

SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION: The use of mechanical ventilation is

recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air

movement.

RESPIRATORY PROTECTION: NIOSH approved (type) air purifying

respirator where TLV is exceeded.

PROTECTIVE GLOVES: Chemical resistant EYE PROTECTION: Safety glasses

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment

should be easily accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES: Sweep up and place in suitable containers

for reuse or disposal.

WASTE DISPOSAL: If this product becomes a waste, it does not

N.E. = Not Established

N.A. = Not Applicable

MSDS for PSA-1...Page 3

meet the requirements of a RCRA hazardous waste. Always dispose of according to all local/state/ and federal

regulations.

HANDLING & SPECIAL EQUIPMENT Avoid high dust concentrations while

handling through the use of ventilation or other suitable controls. Ensure all equipment is grounded to prevent static

discharge.

STORAGE REQUIREMENTS:

None

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME: Not DOT Regulated

HAZARD CLASS: N.A. N.A. UN/NA NUMBER: PACKING GROUP W/ "PG": N.A. SUBSIDIARY RISK: N.A. REPORTABLE QUANTITY (RQ): N.A. N.A.

EMERGENCY RESPONSE GUIDE #:

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304 This product does not contain ingredients listed as an

Extremely Hazardous Substance.

SECTION 311/312 Immediate, Delayed

SECTION 313 This product does not contain ingredients (at a level

of 1% or greater) on the List of Toxic Chemicals.

OTHER REGULATORY INFORMATION

All of the components in this appear on the TSCA INVENTORY:

TSCA inventory.

CALIFORNIA PROP 65: None of the chemicals on the current

Proposition 65 list are known to be present in

this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp, 11/22/2002

N.E. = Not Established N.A. = Not Applicable MSDS for PSA-1...Page 4 Revision: 1 Status: Approved & Released MSDS

Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	1	Telephone number	11/9/00

N.E. = Not Established N.A. = Not Applicable MSDS for PSA-1...Page 5





BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME:

ITEM NUMBER:

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER: ADDRESS:

EMERGENCY TELEPHONE NUMBER

PREPARED BY:

DATE PREPARED:

PSA-2L

488165

Alkoxylated alcohols

Component

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(703)527-3887 for International

BJ Services Environmental Group

(281)351-8131 July 9, 2001

Supersedes: November 9, 2000

HMIS HAZARD INDEX

HEALTH:

2

FLAMMABILITY:

1 0

REACTIVITY: 0
PERSONAL PROTECTION: i

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Poly (oxy-1,2-ethanediyl)	24938-91-8	100	None

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

> 300°F (COC)

UPPER EXPLOSION LIMIT(% BY VOL):

N.A. N.A.

LOWER EXPLOSION LIMIT(% BY VOL): AUTO-IGNITION TEMPERATURE:

N.E.

EXTINGUISHING MEDIA:

IN.E.

SPECIAL FIRE FIGHTING PROCEDURES:

Alcohol foam, carbon dioxide, dry chemical, water fog Do not enter a fire area without proper protective equipment, including NIOSH/MSHA approved,

self-contained breathing apparatus. Use water spray to cool containers exposed to fire. Avoid exposure to

vapors.

EXPLOSION DATA:

N.E.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide

SECTION IV - HEALTH HAZARD DATA

N.E. = Not Established

N.A. = Not Applicable

MSDS for PSA-2L...Page 1

PRIMARY ROUTES OF ENTRY: Eye and skin contact

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT:

May cause skin irritation.

SKIN ABSORPTION:

Not expected to be absorbed through the skin under normal

conditions.

EYE CONTACT:

Eye contact may cause irritation and redness.

INHALATION: INGESTION:

Not expected to be harmful by inhalation under normal conditions. Not considered to be a likely route of exposure, however, may be

harmful if swallowed.

CHRONIC OVEREXPOSURE EFFECTS: No known effects

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Poly (oxy-1,2-ethanediyl)	N.E.	N.E.

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

IARC has identified EtO as a "human carcinogen (Group 1); human evidence is limited; animal evidence is sufficient". EtO has been listed as an "anticipated carcinogen" by the NTP.

TERATOGENICITY, MUTAGENICITY:

No effects listed

TOXICITY STUDIES:

LD(50)

N.E. N.E.

LC(50)

SECTION V - FIRST AID PROCEDURES

FOR EYES:

Immediately flush with plenty of water for at least 15 minutes. If irritation

persists, contact a physician.

FOR SKIN:

Flush all affected areas with plenty of water for several minutes. Remove and

wash any contaminated clothing and shoes. Get medical attention if skin

irritation occurs.

FOR INHALATION:

Remove to fresh air. If breathing has stopped, give artificial respiration, Keep

person warm, quiet and get medical attention.

FOR INGESTION:

If swallowed, seek medical attention. Only induce vomiting at the instructions of

medical personnel. Never give anything by mouth to an unconscious person.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR:

Clear, colorless to amber liquid with mild polyether odor

SPECIFIC GRAVITY:

0.98 at 77°F

VAPOR PRESSURE: VAPOR DENSITY (air=1):

> 1 N.A.

N.E.

EVAPORATION RATE: BOILING POINT:

485°F 24°F

FREEZING POINT: SOLUBILITY IN H20:

Insoluble

pH:

6-8 (5% aqueous solution)

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Oxidizers, temperature extremes

HAZARDOUS POLYMERIZATION: Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION: The use of mechanical ventilation is recommended whenever

this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is

natural air movement.

RESPIRATORY PROTECTION: As needed use an air purifying, full facepiece respirator with an

organic vapor cartridge.

PROTECTIVE GLOVES: Chemical resistant

EYE PROTECTION: Goggles

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily

accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES: Dike or contain spill to prevent material from entering

waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and

place in salvage containers.

WASTE DISPOSAL: If this product becomes a waste, it does not meet the

requirements of a RCRA hazardous waste. Always dispose of

according to all local/state/ and federal regulations.

HANDLING & SPECIAL EQUIPMENT: Do not get in eyes, on skin or clothing.

STORAGE REQUIREMENTS: Store in a cool, dry, well-ventilated area.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME: Not DOT Regulated

HAZARD CLASS: N.A.
UN/NA NUMBER: N.A.
PACKING GROUP W/ "PG": N.A.
SUBSIDIARY RISK: N.A.

REPORTABLE QUANTITY (RQ): N.A. EMERGENCY RESPONSE GUIDE #: N.A.

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304 This product does not contain ingredients listed as an Extremely

Hazardous Substance.

N.E. = Not Established N.A. = Not Applicable MSDS for PSA-2L...Page 3

SECTION 311/312

Immediate

SECTION 313

This product does not contain ingredients (at a level of 1% or greater) on

the List of Toxic Chemicals.

OTHER REGULATORY INFORMATION

TSCA INVENTORY: A

All of the components in this product appear on the TSCA

inventory.

CALIFORNIA PROP 65:

This product contains trace amounts of ethylene oxide (EtO) and 1,4-dioxane, chemicals known to the State of California to cause

cancer and/or birth defects or reproductive harm.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 11/22/2002

Revision: 1 Status: Approved & Released MSDS

Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	All	General revision	07/09/01

N.E. = Not Established N.A. = Not Applicable MSDS for PSA-2L...Page 4

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

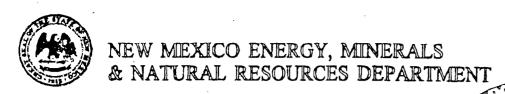
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REO	UEST	FOR	APPROVAL	TO	ACCEPT	SOLID	WASTE
-----	------	-----	----------	----	--------	--------------	-------

REQUEST FOR APPROVAL TO ACCEP'	T SOLID WASTE	
1. RCRA Exempt: Non-Exempt:	4. Generator: Black Warrior Wireline Corp	
Verbal Approval Received: Yes 🗌 No 🗵	5. Originating Site: Farmer's Market	
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech	
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico	
7. Location of Material (Street Address or ULSTR) 401 West Broadway, Bloomfield	Project #02145-001	
9. Circle One:		
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste clapproved 	ecessary chemical analysis to PROVE the	
All transporters must certify the wastes delivered are only those consigned for trans	port.	
BRIEF DESCRIPTION OF MATERIAL:	63456	
Diesel contaminated media from truck spill onto parking lot.	MAR 2003	
CWS & MSDS attached.	O. L. DIV.	
Needs MSDS fordiesel, in future will new	n public	
Estimated Volume 1 bbl cy Known Volume (to be entered by the operator at the end	·	
SIGNATURE JUNES TITLE: Environmental Waste Management Pacifity Authorized Agent	Administrative Assistant DATE: 11/13/02	
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	ان 18 19	
(This space for State Use) Martin John. Environman APPROVED BY: Fourt TITLE: Envirol APPROVED BY: TITLE: ged la	h/Geologist 3/18/03 Engr DATE: 3/6/03 29/5 DATE: 3-6-3	



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

according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's Jul 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) pursuan	CENTIFICATE	OF WASIES JAIUS
### P.O. BOX 2435 FARMINGTON, NM 87499 3. Originating Site (name): Carking St. Farmers Continued	. •	
BLACK Warrior Waste Attach list of originating sites as appropriate	Generator Name and Address:	2. Destination Name:
3. Originating Site (name): Carking bot Farmers Market in Bloom field Attach list of originating sites as appropriate 4. Source and Description of Waste Diesel Fuel In Surry Husket (Print Name) (P. O. BOX 2435	Landfarm #2
Attach list of originating sites as appropriate 4. Source and Description of Waste Diesel Fuel I,		Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Diesel Fuel	Parking lot Farmers M	larket in Bloom field
Jerry Huskef	Attach list of originating sites as appropriate	
I, Jerry Husket (Print Name) (December 2000 According to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's Jul 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 (December 1998) (MSDS Information (December 1998) (Print Name) (December 1998) (December	4. Source and Description of Waste	*
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's Jul 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) pursuance 20 NMAC 3.1 subpart 1403.C and D.	Diesel Fuel .	•
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's Jul 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) pursuance 20 NMAC 3.1 subpart 1403.C and D.		
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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) pursuance 20 NMAC 3.1 subpart 1403.C and D.	according to the Resource Conservation and Reco	overy Act (RCRA) and Environmental Protection Agency's July,
For NON-EXEMPT waste the following documentation is attached (check appropriate items): X		
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) pursuants 20 NMAC 3.1 subpart 1403.C and D.	and that nothing has been added to the exempt or	non-exempt non-hazardous waste defined above.
to 20 NMAC 3.1 subpart 1403.C and D.	MSDS InformationRCRA Hazardous Waste Analysis	
Name (Original Signature): Jerry Husley Title: Manager Date: 3/3/03	This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	of Naturally Occurring Radioactive Material (NORM) pursuant
Date: Manager Date: 3/3/03	Name (Original Signature):	isley
Date: 3/3/03	Title: Manager	
	Date: 3/3/03	

METEOR MARKETING FMN

5053257101

p.2

2 Distillate (MSDS# US001847)

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MATERIAL SAFETY DATA SHEET

No. 2 Distillate

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Synonyms:

High Sulfur Diesel Fuel; #2 Distillate; #2 High Sulfur Diesel - Dyed; No. 2 Low Sulfur

Distillate; Low Sulfur Diesel Fuel; #2 Distillate; #2 Low Sulfur Diesel - Dyed; Premium Diesel

Formula:

Chemical Family: CAS Number:

Hydrocarbons

68476-34-6

SAP Code:

1014071; 1014072; 1014073; 1014074; 1014075; 1014076; 1014077; 1014078; 1014079; 1014080; 1014081; 1014082; 1014083; 1014085; 1014087; 1014088; 1014089; 1014090; 1014091; 1014092; 1014093; 1014096; 1014098; 1014100; 1014549; 1014550; 1014551;

1014552; 1014759; 1014760; 1014982; 1014983; 1014984

Product Code:

34260; 34360; 35260; 35360

MSDS Number:

001847

NFPA Ratings: HMIS Ratings:

Health 1, Flammability 2, Reactivity 0 Health 1, Flammability 2, Reactivity 0

Manufactured By:

Phillips 66 Company

A Division of Phillips Petroleum Company

Bartlesville, Oklahoma 74004

Phone Numbers

Emergency:

(918) 661-8118

Technical Information:

(918) 661-1672

For Additional MSDSs: (800) 762-0942

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Specification and CAS #	Weight % In Product	ACGIH TLV	ACGIH Shart Term Exposure Limit	ACGIH Ceiling Limits	ACGIH Skin Designation	OSHA Final PEL	OSHA - Final PELs - Ceiling Limits	OSHA - Final PELs Skin Notalion
Diesel fuel no. 2 68476-34-6	100	NE	NE	NE	NE	NE	NE	NE
Sulfur 7704 - 34 - 9	< 0.5	NE	NE	NE	NE	NE	NE	NE
Benzene 71-43-2	< 0.005	0.5 ppm	2.5 ppm; 8 mg/m3	NE	skin - potential for cutaneous absorption	1 ppm TWA (Areas exempted by the Benzene Standard, 29 CFR 1910, 1028, will have a 10 ppm 8 hour TWA and 5 ppm STEL)	NE	NE .

^{* 1% = 10,000} ppm.

Black warrior

(MSDS: 001847)



MATERIAL SAFETY DATA SHEET Phillips No. 2 Diesel

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Phillips No. 2 Diesel

Product Code:

Multiple

Synonyms:

#2 Distillate; #2 HIgh Sulfur Diesel - Dyed; #2 Low Sulfur Diesel - Dyed

1354

CARB Diesel TF3; CARB Diesel; CARB Diesel 10%

Diesel Fuel Oil

EPA Low Sulfur Diesel Fuel
EPA Low Sulfur Diesel Fuel - Dyed
EPA Off Road High Sulfur Diesel - Dyed

High Sulfur Diesel Fuel Low Sulfur Diesel Fuel No. 2 Diesel Fuel Oil

No. 2 High Sulfur Diesel - Dyed No. 2 Low Sulfur Diesel - Dyed No. 2 Low Sulfur Diesel - Undyed

No. 2 Low Sulfur Distillate

No. 2 Ultra Low Sulfur Diesel - Dyed

No. 2 Ultra Low Sulfur Diesel - Undyed

Intended Use:

Fuel

Chemical Family:

Petroleum Hydrocarbons

Responsible Party:

Phillips 66

A Division of ConocoPhillips Bartlesville, Oklahoma 74007

For Additional MSDSs 800-762-0942 Technical Information: 918-661-8327

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident

Call CHEMTREC

North America: (800)424-9300 Others: (703)527-3887 (collect) California Poison Control System: (800) 356-3129

Health Hazards/Precautionary Measures: Causes severe skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

Appearance:

Straw-colored to dyed red

Physical form:

Liquid

Odor:

Characteristic petroleum

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NFPA Hazard Class:

HMIS Hazard Class

Health: 1 (Slight)
Flammability:2 (Moderate)
Reactivity: 0 (Least)

Health: 3*(High)
Flammability: 2 (Moderate)
Physical Hazard: 0 (Least)

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% VOLUME	EXPOSURE GUIDELINE		
		<u>Limits</u>	Agency	Туре
Diesel Fuel No. 2 CAS# 68476-34-6	100	100 mg/m3	ACGIH	TWA-SKIN
Naphthalene CAS# 91-20-3	<1	10 ppm 15 ppm 10 ppm 250 ppm	ACGIH ACGIH OSHA NIOSH	TWA STEL TWA IDLH

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM.

All components are listed on the TSCA inventory.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Severe skin irritant. Contact may cause redness, itching, burning, and severe skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not acutely toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Possible skin cancer hazard (see Sections 11 and 15).

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

^{*}Indicates possible chronic health effects.

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Other Comments: This material may contain polynuclear aromatic hydrocarbons (PNAs) which have been known to produce a photototoxic reaction when contaminated skin is exposed to sunlight. The effect is similar in appearance to an exaggerated sunburn, and is temporary in duration if exposure is discontinued. Continued exposure to sunlight can result in more serious skin problems including pigmentation (discoloration), skin eruptions (pimples), and possible skin cancers.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and kidney disorders.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Immediately remove contaminated shoes, clothing, and constrictive jewelry and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

Note To Physicians: High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flash Point: 125-180°F/52-82°C (PMCC)

OSHA Flammability Class: Combustible liquid

LEL%: 0.3 / UEL%: 10.0

Autoignition Temperature: 500°F/260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

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Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1 and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) fightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

(MSDS: 001847) Page 5 of 8

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage. Examples of approved materials are nitrile, or Viton® (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Appearance: Straw-colored to dyed red

Physical State: Liquid

Odor: Characteristic petroleum

pH: Not applicable

Vapor Pressure (mm Hg): 0.40

Vapor Density (air=1): >3

Boiling Point/Range: 300-690°F / 366

Freezing/Melting Point: No Data Solubility in Water: Negligible Specific Gravity: 0.81-0.88 @60°F Percent Volatile: Negligible Evaporation Rate (nBuAc=1): <1

Viscosity: 1.7-4.1 cSt @40°F Bulk Density: 7.08 lbs/gal

Flash Point: 125-180°F / 52-82°C (PMCC)

Flammable/Explosive Limits (%): LEL: 0.3 / UEL: 10.0

(MSDS: 001847) Page 6 of 8

10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. ACGIH has included a TLV of 0.02 mg/m3 TWA for diesel exhaust particulate on its 2002 Notice of Intended Changes. See Section 11 for additional information on hazards of engine exhaust.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Diesel Fuel No. 2 (CAS# 68476-34-6)

Carcinogenicity: Chronic dermal application of certain middle distillate streams contained in diesel fuel No. 2 resulted in an increased incidence of skin tumors in mice. This material has not been identified as a carcinogen by NTP, IARC, or OSHA. IARC has classified Diesel exhaust as probably carcinogenic in humans.

Target Organ(s): Limited evidence of renal impairment has been noted from a few case reports involving excessive exposure to diesel fuel No. 2.

Naphthalene (CAS# 91-20-3)

Carcinogenicity: Naphthalene has been evaluated in two year inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in male mice. Naphthalene has been identified as a carcinogen by IARC.

Acute Data:
Diesel Fuel No. 2
Dermal LD50>5ml/kg (Rabbit)
LC50=No data available
Oral LD50=9 ml/kg (Rat)

12. ECOLOGICAL INFORMATION

Not evaluated at this time

13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the spilled or released material impacts soil, water, or other media, characteristic testing of the contaminated materials may be required prior to their disposal. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

ConocoPhillips

3/6/2003 9:17 PAGE 8/9 RightFAX

(MSDS: 001847) Page 7 of 8

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORT INFORMATION

DOT Shipping Description:

Diesel fuel,3 or Combustible liquid*,UN1202**,III

Non-Bulk Package Marking:

Diesel fuel, UN1202** or None

Non-Bulk Package Label:

Flammable or None

Bulk Package Placard/Marking: Flammable/1202

Hazardous Substance/RQ

None

Packaging References

49 CFR 173.150, 173.203, 173.241

Emergency Response Guide:

Note:

*This product may be reclassed as a combustible liquid when shipped domestically or by rail or highway. If reclassed as a combustible liquid, this product is not regulated by DOT when shipped in non-bulk

packages.

**NA1993 may be used instead of UN1202 for land transportation.

15. REGULATORY INFORMATION

EPA SARA 311/312 (Title III Hazard Categories):

Acute Health:

Yes

Chronic Health:

Yes

Fire Hazard:

Yes

Pressure Hazard: No

Reactive Hazard:

SARA 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Component

CAS Number

Weight %

Naphthalene

91 - 20 - 3

<1

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Component

Effect

Benzene

Cancer, Developmental and Reproductive Toxicant

Toluene

Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

Carcinogen Identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any. Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as a carcinogen by IARC.

(MSDS: 001847) Page 8 of 8

EPA (CERCLA) Reportable Quantity:

--None-

Canada - Domestic Substances List: Listed

WHMIS Class:

B2-Flammable Liquid

D2B-Materials causing other toxic effects - Toxic Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Issue Date: 02/13/03

Previous Issue Date: 01/01/03 Product Code: Multiple Revised Sections: 1, 3, 5, 16 Previous Product Code: Multiple

MSDS Number: 001847

Status: Final

Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

Form C-138

Distric

REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: MP 73, Highway 64
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) MP 73, Hwy 64, Blanco	Project #95026-007
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied to one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste approved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for tran	sport.
BRIEF DESCRIPTION OF MATERIAL:	
Diesel contamination cleaned from truck wreck. CWS and MSDS attached. Estimated Volume 8 cy Known Volume (to be entered by the operator at the end of	MAR 2003 (cy. of 61, 10, 10)
SIGNATURE Landrea Jackson TELEPHONE NO: (505) 632-061:	l Administrative Assistant DATE: 11/26/02
THE ORTHUR DAMES EMIGROUP TEELING TO LEGISTRONE LEGISTRONE TO LEGISTRONE LE	~ ~ ~
APPROVED BY: May Jens TITLE: Environment TITLE: Env	DATE: 3/06/03 Lange DATE: 3/18/03

MAR 2003



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

	accide of all the
1. Generator Name and Address: BJ Services River Road RAMINGTON, New Mexico	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Wile Post 73, Highway & & Blanco, Van Mefrico	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Fluids cleaned up at accid	lut site
, Les Baugh	representative for:
BJ Serucces	de franchis anales des
	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
EXEMPT oilfield waste	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): In Sou Title: Faulities Supervisor	agh
Date: 3/3/03	
E 0 E 0 0 C C C C C C C C C C C C C C C	



BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME:

ITEM NUMBER :

CHEMICAL DESCRIPTION:

PRODUCT USE:

SUPPLIER:

ADDRESS:

EMERGENCY TELEPHONE NUMBER

International PREPARED BY:

DATE PREPARED:

August 6, 1998

Diesel #2

182848, 100365

Diesel Oil Solvent

BJ Services Company 5500 Northwest Central Dr

Houston TX 77092

(800)424-9300 for CHEMTREC

(202)483-7616 Alaska and

BJ Services Environmental Group

(281)351-8131

August 7, 2000 Supersedes:

HMIS HAZARD INDEX

HEALTH:

1

FLAMMABILITY:

2

REACTIVITY:

~

PERSONAL PROTECTION: h

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS#	PERCENT	HAZARD
Diesel Fuel	68476-34-6	100	Combustible

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD):

130°F (TCC)

UPPER EXPLOSION LIMIT(% BY VOL):

6.0

LOWER EXPLOSION LIMIT(% BY VOL):

0.4

AUTO-IGNITION TEMPERATURE: EXTINGUISHING MEDIA:

494°F

foam

Water spray, dry chemical, CO2,

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire-exposed

containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Do not enter enclosed or confined space without proper

N.E. = Not Established

N.A. = Not Applicable

protective equipment including

respiratory protection.

EXPLOSION DATA: Vapor forms explosive mixture with

air.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide,

and a variety of hydrocarbons

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: Prolonged or repeated contact with skin may cause

irritation or contact dermatitis.

SKIN ABSORPTION:

Not absorbed by skin.

EYE CONTACT: INHALATION:

Eye contact may cause irritation and redness.

Prolonged exposure may cause signs and

symptoms of Central Nervous System depression such as headache, dizziness, loss of appetite, weakness, and loss of coordination. May also lead

to chemical pneumonia.

INGESTION:

Will cause nausea, vomiting, diarrhea, and

restlessness.

CHRONIC OVEREXPOSURE EFFECTS: Eye irritation, skin irritation leading to

dermatitis, CNS depression and chemical

pneumonia.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Diesel Fuel	N.E.	N.E.

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Petroleum distillate, a component of this product, has been shown to cause skin cancer in laboratory animals.

TERATOGENICITY, MUTAGENICITY:

No effects listed.

TOXICITY STUDIES:

LD(50)

9 ml/kg (oral-rat)

LC(50) N.E.

SECTION V - FIRST AID PROCEDURES

FOR EYES:

Immediately flush with plenty of water for at least 15

minutes. If irritation persists, contact a physician.

FOR SKIN:

Flush skin with water or wash with mild soap and water if

available. If irritation persists, contact a physician.

FOR INHALATION:

Remove to fresh air. If breathing has stopped, give artificial

N.E. = Not Established

N.A. = Not Applicable

respiration. Keep person warm, quiet and get medical

attention.

FOR INGESTION: DO NOT induce vomiting. Aspiration into the lungs will cause

severe chemical pneumonia. Seek medical attention

immediately!

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Clear or straw-colored or dyed blue/green/red

liquid with aromatic odor.

SPECIFIC GRAVITY: VAPOR PRESSURE: 0.84-0.88 @ 60°F 1 mm Hg @ 68°F

VAPOR DENSITY (air=1):

>1 N.E.

EVAPORATION RATE: BOILING POINT:

350-690°F (177-366°C)

FREEZING POINT: SOLUBILITY IN H20: N.E. Insoluble

pH:

N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY:

Stable

INCOMPATIBLE MATERIALS:

Strong oxidizers

HAZARDOUS POLYMERIZATION:
HAZARDOUS DECOMPOSITION PRODUCTS:

Does not polymerize See Combustion Products

SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION:

The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air movement.

RESPIRATORY PROTECTION:

As needed Air purifying, half face piece,

organic vapor cartridge or canister.

PROTECTIVE GLOVES: EYE PROTECTION:

Rubber or neoprene Safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT:

Eyewash bottles or other rinsing equipment

should be easily accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES:

Eliminate ignition sources. Dike or contain spill to prevent material from entering waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and place

in salvage containers.

WASTE DISPOSAL:

If this product becomes a waste it may meet the requirements of a RCRA hazardous waste with the waste code D001. Always dispose of according to all local, state, and

N.E. = Not Established

N.A. = Not Applicable

federal laws and regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid contact with eyes, skin and clothing.

Avoid breathing vapors. Keep away from heat, sparks and open flames. Ground container when pouring. Keep containers

closed when not in use.

Store outdoors or in a detached area if STORAGE REQUIREMENTS:

possible. Otherwise, store in well-ventilated area away from heat, sparks

and open flames.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME:

Diesel Fuel

HAZARD CLASS:

UN/NA NUMBER: PACKING GROUP W/ "PG": NA1993 PGIII

SUBSIDIARY RISK:

N.A.

REPORTABLE QUANTITY (RQ):

N.A.

EMERGENCY RESPONSE GUIDE #: 128

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304

This product does not contain ingredients

listed as an Extremely Hazardous

Substance.

SECTION 311/312

Immediate, Delayed, Fire

SECTION 313

This product does not contain ingredients (at

a level of 1% or greater) on the List of Toxic

Chemicals.

OTHER REGULATORY INFORMATION

TSCA INVENTORY:

All of the components in this appear on the

TSCA inventory.

CALIFORNIA PROP 65:

None of the chemicals on the current

Proposition 65 list are known to be present

in this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Once printed, the information contained in this document is valid for a period of 45 days from its date stamp. 03/05/2003

Revision: 2

Status: Approved & Released MSDS

Revision History:

N.E. = Not Established

N.A. = Not Applicable

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	HMIS, II, III, IV, VI, IX, X	HMIS, CAS#, Fire & explosion data, LD50, Physical data, Handling precautions, Regulatory information	8-6-98
3	1	Telephone number	08/07/00

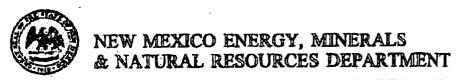
State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised March 17, 1999 Submit Original

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator: Schlumberger
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Main Yard
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Havens
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3106 Bloomfield Highway, Farmington	Project #97033-002
 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste c approved All transporters must certify the wastes delivered are only those consigned for trans BRIEF DESCRIPTION OF MATERIAL: Sand contaminated when it was placed in the wrong silo. 40/70 Arizona and 	ecessary chemical analysis to PROVE the lassified hazardous by listing or testing will be port.
CWS and MSDS for both types of sand attached.	MAR 2003 MAR 20
Estimated Volume 26,000 pounds cy Known Volume (to be entered by the operator	at the end of the haul)cy
SIGNATURE SUPPLY Authorized Agent TITLE: Environmental	Administrative Assistant DATE: 12/06/02
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	୍ଦି ପ କ୍
(This space for State Lise)	

Troust TITLE: Environment/ Gedays/ DATE: 3/18/



OIL CONSERVATION DIVISION ATTEC DISTRICT OFFICE 1000 RIG BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-6178 Fax (503)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS				
	MAR 2000			
1. Generator Name and Address: SCHLUMBER GER 3106 BLOOM FIECD HWY 7ARM ZNGZON, NEW MEX-	2. Destination Name: Envirotech Soil Remediation Facility on Landfarm #2 Hilltop, New Mexico			
3. Originating Site (name): fcHh(MBERG-ER 3146 B140MFIELD HWY- FARMING TON, HEW M- Attach first of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):			
4. Source and Description of Waste CAND WAL CONTAM IN 47	TED BY PUTTING WRONG 40/70 ARZZ. & 20/40 TLC			
1988, regulatory determination, the above described EXEMPT oilfield waste NON-EXEMPT	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) NPT cliffield waste which is non-hazardous by characteristic 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				
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant			
Name (Original Signature): <u>A Tephan K</u>	: Sun			
Title: BULL PLANT SUPER	UTSOR			
Date: 2/28/2003				

Schlumberger

Feb 28 03 03:35p

MATERIAL SAFETY DATA SHEET

(505)325-0206

(Complies with USA OSHA 29 CFR 1910,1200 and ANSI Z 400.1)

7Le

PRODUCT CODE:

S128.2-2040

Effective Date:

16-September-2002

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

Identification of the substance or preparation:

Tempered LC®

Company/undertaking identification:

Schlumberger

110 Schlumberger Drive

Sugar Land, Texas 77478, USA

Corporate Emergency Phone:

USA 1-281-595-3518

Corporate Non-Emergency Phone:

USA 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CRYSTALLINE SILICA; CAS 14808-60-7; 60 - 100%

PHENOLFORMALDEHYDE RESIN; CAS 57851-91-9: 1 - 5%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Granules

Color:

Yellow to brown

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

None.

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause lung cancer. Silica dust may cause silicosis. May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Rinse with water.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

Rinse mouth with water. Seek medical attention if

irritation occurs.

Notes:

None.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Compatible with all types

Further Information:

Wear protective fire fighting clothing and use self-

PRODUCT CODE:

S128.2-2040

Effective Date:

16-September-2002

Flash point:

Not combustible.

contained breathing apparatus.

Method:

Not applicable

Flammability (explosion limits in air):

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:

Lower^{*}

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 (3M 8210). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA

respirator.

Eye protection:

It is good practice to wear goggles when handling any

chemical,

Hand protection:

Cotton gloves.

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit,

"C" indicates the value is a maximum concentration (ceiling).

CRYSTALLINE SILICA

	TWA	STEL	ANM
CANADA	ND	NO	
USA: ACGIH	0.05	NE	
USA: OSHA	0.1	NE	

PRODUCT CODE:

S128.2-2040

Effective Date: 16-September-2002

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:

Granules

Color:

Yellow to brown

Odor:

None

pH value: Boiling point: Not applicable

Pour point:

3992°F 3115°F

Vapor pressure:

Not applicable

Relative density (specific gravity):

2.5 (68°F)

Bulk Density (solids):

1100-1600 kg/m3

Solubility in water:

Insoluble

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Not applicable 0

% Volatile: Nature:

Inert

10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to avoid:

None known

Materials to avoid:

None known

Hazardous Polymerization:

Will not occur.

Dust explosion hazard (solids):

No.

Special hazards:

None.

Hazardous decomposition products:

When heated strongly or burned, oxides of carbon and

harmful organic chemical fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact:

May cause mechanical irritation.

Skin contact:

No effect expected. Prolonged or repeated contact

may cause mild irritation.

Inhalation: Ingestion: Repeated exposure to silica dust may cause silicosis. No effect expected. Swallowing large amounts may

140

cause illness.

Carcinogenicity:

This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause

lung cancer.

Mutagenicity:

Not known to cause heritable genetic damage.

Teratogenicity:

Not known to cause birth defects.

Target organs which may be affected:

Lung

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.

PRODUCT CODE:

S128.2-2040

Effective Date:

16-September-2002

13. DISPOSAL CONSIDERATIONS

Product:

Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

Sub Risk:

14. TRANSPORT INFORMATION

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Not Regulated

Hazard Class:

Not Regulated

Not Regulated

Shipping Name: DOT Label:

Canadian Shipments

Shipping Name:

Not Regulated

Label:

Classification:

Sub Risk:

Package Group:

PIN:

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: Not Classified

16. OTHER INFORMATION

Sections affected by last revision:

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING TRANSPORT INFORMATION

^{*}Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith;

p.7

PRODUCT CODE: S128.2-2040 Effective Date: 16-September-2002

Steve Sword

however, no warranties or representations are made by Schlumberger regarding the accuracy or completeness of the information.

Schlumberger

MATERIAL SAFETY DATA SHEET

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1) 40/70 4RIZONA

PRODUCT CODE:

\$022

Effective Date:

16-September-2002

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

Identification of the substance or preparation:

40/70-MESH SAND S22

Company/undertaking identification:

Schlumberger

110 Schlumberger Drive

Sugar Land, Texas 77478, USA

Corporate Emergency Phone:

USA 1-281-595-3518

Corporate Non-Emergency Phone:

USA 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CRYSTALLINE SILICA; CAS 14808-60-7;

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Granules

Color:

Tan

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None

Physical Hazard:

None.

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause lung cancer. Silica dust may cause silicosis. May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Rinse with water.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

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.

PRODUCT CODE: S022 Effective Date: 16-September-2002

Method:

Not applicable

Flammability (explosion limits in air):

Lower:

Not applicable

Upper:

Not applicable

p.9

Autoflammability (auto-ignition temperature):

Not applicable

Explosive properties (thermal decomposition temperature):

Steve Sword

Not determined

NFPA Rating: Health 0 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

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 (3M 8210). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA

respirator.

Eye protection:

Chemical splash goggles.

Hand protection:

Cotton gloves.

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

CRYSTALLINE SILICA

STEL ANM TWA

CANADA

ND ND

USA: ACGIH

0.05 NE

USA: OSHA

0.1 NE

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:

Granules

Color: Odor:

Tan None

pH value:

Not applicable

PRODUCT CODE: S022 Effective Date: 16-September-2002

Boiling point: 3992°F

Pour point:

Vapor pressure:

Relative density (specific gravity):

3115°F

Not applicable

2.6 (68°F)

Bulk Density (solids): 1100-1600 kg/m3

Solubility in water:

Viscosity:

Relative Vapor Density (air=1):

Insoluble

Not applicable

% Volatile: 0
Nature: Inert

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid:

Materials to avoid:

None known

None known

Hazardous Polymerization:

Will not occur.

Dust explosion hazard (solids):

Not applicable.

Special hazards: None. Hazardous decomposition products: None.

11. TOXICOLOGICAL INFORMATION

Eye contact: May cause mechanical irritation.

Skin contact: No effect expected. Prolonged or repeated contact

may cause mild irritation.

Inhalation: Repeated exposure to silica dust may cause silicosis.

Ingestion: No effect expected. Swallowing large amounts may

cause illness.

Carcinogenicity: This product may contain small amounts of respirable

crystalline silica. Inhalation of silica dust may cause

lung cancer.

Mutagenicity: Not known to cause heritable genetic damage.

Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: Lung

Sensitization: Not known to cause allergic reaction.

Other: None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

Not applicable

Fish Toxicity:

Low toxicity to fish.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with local regulations.

Container: Send empty bags to sanitary landfill. Render other

Feb 28 03 03:38p

PRODUCT CODE:

S022

Effective Date:

16-September-2002

types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local

regulations.

USA EPA RCRA:

None

14. TRANSPORT INFORMATION

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Not Regulated

Hazard Class:

Not Regulated

Sub Risk:

Shipping Name:

Not Regulated

DOT Label:

Canadian Shipments

Shipping Name:

Not Regulated

Label:

Classification:

Sub Risk:

Package Group:

PIN:

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: Not Classified

16. OTHER INFORMATION

Sections affected by last revision:

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING TRANSPORT INFORMATION

'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 Schlumberger regarding the accuracy or completeness of the information.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III

1301 W. Grand Avenue, Artesia, NM 88210

District III

1302 P. Process Pond Agree, NM 87410 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST	FOR A	PPROVAL	TO ACCEPT	[SOLID	WASTE

REQUEST FOR ATTROVAL TO ACCET	I SOLID WASTE	
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: Schlumberger	
Verbal Approval Received: Yes \(\sum \) No \(\sum \)	5. Originating Site: Yard	
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Havens	
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico	
7. Location of Material (Street Address or ULSTR) 3106 Bloomfield Highway, Farmington	Project #97033-001	
 9. <u>Circle One</u>: A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste cl 	ecessary chemical analysis to PROVE the	
approved All transporters must certify the wastes delivered are only those consigned for trans	port.	
	=	
BRIEF DESCRIPTION OF MATERIAL:	131/5°C	
Junk Cement. CWS and MSDS attached. beneficial Use	MAR 2003	
Estimated Volumecy Known Volume (to be entered by the operator at the en	nd of the haul)cy	
SIGNATURE Landruk. LUSO TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 12/13/02	
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615		
(This space for State Use)		
APPROVED BY: Newty John TITLE: Environment	Engr DATE: 3/06/03	
APPROVED BY: / lenting 34. TITLE: Znuitonmunh	Geologist DATE: 3/18/03	



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

GIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOB ROAD AZTEC, NEW MEXICO 87410 (906) 334-E178 Fax (505)334-6170

GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
SCHLUMBERGER 3106 BLOOM FIELD HWY	Envirotech Soil Remediation Facility
3106 BLOOM FILLONAU	Landfarm #2 Hilltop, New Mexico
FARMINGTON, NEWMEX.	militop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
SCHLUMBER GER	
3106 BLOOM FIELD HW	<i>Y</i>
ZARMTNIGTON, MAN	, mein
FARM TNG-TON / NCW Attach list of originating eites as appropriate	PITE XI
4. Source and Description of Waste	<u> </u>
JULY CENEVY OIL	FIELD RETUGAS
December 13, 2	002
OTT Alian D Pinah	
1, STEPHAN R. SWORD (Print Name) SCHLYMB-CRGEN	representative for:
PCHLUMB-PRICEN	do hereby certify that
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July
1988, regulatory determination, the above described to	waste is: (Check appropriate classification)
TVENDT - 25 old NON EVEN	IDT allfield was to which is a set of the interest of the inte
	IPT oilfield waste which is non-hazardous by characteristic by product identification
	ay product location
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
E NON EVERIOT waste the following decumented	tion in attached tohoot, and a fact to the
For NON-EXEMPT waste the following documental MSDS Information	ion is attached (check appropriate items): Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of N	laturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	·
	634563
Name (Original Signature): Auphun R	
	But A Ba
THE BUILD PLANT SUPTRIA	ZS CAD MAR 2002
Title: BULU PLANT SUPER V	SOR MAR 2003
	AMAR 2003 MAR 2003 PLUE VED OL COPS DIV
Title: <u>BYLU PLANT SUPTR V</u> Date: <u>3/3/2003</u>	MAR 2003 MACENED OL CONS. DIV.
	MAR 2003 MAR 2003 MAR 2003 OL COMS. DIV.
	MAR 2003 Solocis Div.

District I` 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Schlumberger	
Verbal Approval Received: Yes 🗌 No 🖂	5. Originating Site: Yard	
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Havens	
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico	
7. Location of Material (Street Address or ULSTR) 3106 Bloomfield Highway, Farmington	Project #97033-001	
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 trans	port.	
BRIEF DESCRIPTION OF MATERIAL:		
Junk Cement.		
CWS and MSDS attached. Ben eficial Use		
Estimated Volumecy Known Volume (to be entered by the operator at the end of the haul)cy		
SIGNATURE Handle R. Julian TITLE: Environmental Administrative Assistant DATE: 08/28/02 Waste Management Facility Authorized Agent		
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615		
(This space for State Use)		
APPROVED BY: Demy toust TITLE: Enviro/Engl DATE: 3/06/03		
APPROVED BY: Monty John TITLE: Environmental Geologist DATE: 3/18/03		



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT DEFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-6179 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

Generator Name and Address:	2. Destination Name:	
SCHHUMBERGER	Envirotech Soil Remediation Facility	
3106 BLOOMF ZELD KUY	Landfarm #2	
ZARM TNG. TIN NEW MEX	Hilltop, New Mexico	
7ARM ING-TON, NEWMEX. 3. Originating Site (name): CHLY MB-PRG-PR 3146 BLUMF IELD HU	Location of the Waste (Street address &/or ULSTR):	
JCHLUMB-ORG-PB		
2116 BLOWNETELD HU	$ u \checkmark$	
FARMING TON		
Attach list of originating sites as appropriate		
4. Source and Description of Waste		
•	- A Martin	
JUNI CEMENT OZLF	I ECO RE19QUI	
1		
A 46-457 28	,2002	
. PTEDHAL & SWERD		
SCHLUMBER GER	representative for:	
SCHLUMBER IN ER	do hereby certify that,	
according to the Resource Conservation and Recovery	y Act (RCRA) and Environmental Protection Agency's July,	
1988, regulatory determination, the above described v	vaste is: (Check appropriate classification)	
TV CMOT allefold words C NON EVEN	PT oilfield waste which is non-hazardous by characteristic	
EXEMPT oilfield wasteNON-EXEM 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 documentat		
MSDS Information RCRA Hazardous Waste Analysis	Other (description):	
Chain of Custody		
This waste is in compliance with Regulated Levels of N	aturally Occurring Radioactive Material (NORM) pursuant	
to 20 NMAC 3.1 subpart 1403.C and D.		
Name (Original Signature): Tyhun	R du/	
value (Original Orginature).		
Title: BULK PLANT SUP-	PR UZSOR	
- 9/1/0.42		
Date: 3/3/2003		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Schlumberger	
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Yard	
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Havens	
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico	
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BRIEF DESCRIPTION OF MATERIAL:		
Junk Cement.		
CWS and MSDS attached. beneficial use		
Estimated Volumecy Known Volume (to be entered by the operator at the end of the haul)cy		
SIGNATURE Maste Management Racility Authorized Agent TITLE: Environmental Administrative Assistant DATE: 02/20/02		
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615		
(This space for State Use)		
APPROVED BY Monty off. TITLE: Environmental Geologist DATE: 3/06/03 APPROVED BY Monty off. TITLE: Environmental Geologist DATE: 3/18/03		
APPROVED BY Munty ghis. TITLE: Environm	Lange DATE: 3/06/03 Lange DATE: 3/18/03	

DIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO B7410 (508) 334-6178 FAX (305)334-6170

GARY E. JOHNSON

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Ganarator Maria and Address.	2. Destination Maille.
SCHLUMBER GER	Envirotech Soil Remediation Facility
3106 BLOOM FIELD HWY,	Landfarm #2
7 ganzrotor, Dmer	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
DOULL MADORER	
SCHLUMBERGER 3106 BLOOM FIELD	$4\omega \gamma$,
7ARMINGTON, he	on MAV
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
OZL FIELD RETURN	of Junk cenery
7-EBRUARY DU, 2	002
,	·
I, STEPHAN R. SWORD (Print Name)	representative for:
SCHLUMBER GER	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	
EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic
	by product identification
. analysis of	by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentar	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•.
Name (Original Signature): A Tephan /	dus
- Rille Diana Anha	112 W h
Title: BULK PLANT SUP CK	CVLJUIC
Date: 3/3/2003	
	9

District I 1620 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit Original Plus 1 Copy to Appropriate District Office

Revised March 17, 1999

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
1. RCRA Exempt: ☐ Non-Exempt: ⊠	4. Generator: Schlumberger			
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site: Yard			
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Havens			
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico			
7. Location of Material (Street Address or ULSTR) 3106 Bloomfield Highway, Farmington	Project #97033-001			
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste capproved All transporters must certify the wastes delivered are only those consigned for trans BRIEF DESCRIPTION OF MATERIAL: Junk Cement. CWS and MSDS attached. beneficial Use 	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be			
Estimated Volumecy Known Volume (to be entered by the operator at the entered SIGNATUREcy Known Volume (to be entered by the operator at the entered SIGNATURETITLE: Environmental Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	Administrative Assistant DATE: 01/08/02			
(This space for State Use)	2/0//07			



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 97410 (506) 334-6175 Par (505)334-5170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:	
SCHLUM BERGER	Envirotech Soil Remediation Facility	
3106 BLOOMFIELD HWY.	Landiarm #2	
FARM TOUT TOUR MENTINEY	Hilltop, New Mexico	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
SCHIUMBERGER	cocation of the state (attact addless atol OF214):	
3/1/ Distart TOLD W	uV	
3106 BIGONFIELD H		
7ARMING-TON, NEW	MEX,	
Attach list of originating sites as appropriate 4. Source and Description of Waste		
· · · · · · · · · · · · · · · · · · ·		
JUNG CENERT OF	LFIELD RETURNS	
JANUARY A, 200	12	
PTEPHAN A SWORD	ranzaantatina fari	
1, STEPMAN R. SWORD (Print Name) SCHLYMBER GED	representative for:	
SCHLYMBE A GED	do hereby certify that,	
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,	
1988, regulatory determination, the above described v	Vaste is: (Check appropriate classification)	
EVENIOT citiald wards 1 NON-EYEM	PT oilfield waste which is non-hazardous by characteristic	
	by product identification	
-		
and that nothing has been added to the exempt or nor	exempt non-hazardous waste defined above.	
For NON-EXEMPT waste the following documentat		
MISDS Information RCRA Hazardous Waste Analysis	Other (description):	
Chain of Custody		
Vilon, or Vactory		
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): Liphan	Reduct	
Title: BULY PLANT SUPERUT		
Date: 3/3/2003		

Harlan.

All systems are calculated off of total sacks or the total base weight. Chemicals used in the base systems are D048,D049,D124,D154,D163,D164,D907 & D909. All other chemicals are calculated at % of the total base weight or lbs. Per total sacks. The only exception to this is D044 fine salt it is calculated off the weight of water. All the chemicals are not regulated, except D079 Disodium Metasilicate. D079 is put in at a maximum concentration of 3% by weight of the base system. Example would be 100 sacks D907 = 9400 Lbs., this would allow for 282 Lbs. D079.

The return cement comes from 5 to 10 sacks normal returns per pod on the trucks, plus any blends that the customer orders and does not use. Average monthly junk cement will be between 70000 to 100000 Lbs. If the work level continues at the present level. Let me know if I can be of any further assistance.

Thanks Steve

Fleshan R. Sufar Bulk Plant Supervisor

Bill Clook 27 325 26 27



MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D020

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

BENTONITE EXTENDER D20

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

BENTONITE; CAS 1302-78-9; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Light tan to gray

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust Water slick

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause lung cancer. May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

·

4. FIRST AID MEASURES

Eye contact:

Flush eyes with water for 5 minutes. Get medical

attention if irritation occurs.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

Rinse mouth with water. Seek medical attention if

irritation occurs.

Notes:

None.

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

Slick when wet.

D020

Effective Date:

23-November-1999

Flash point:

Not combustible.

Method:

Not applicable

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 0 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:

Avoid wetting spilled material. Avoid generating dust.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Cotton gloves.

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:

Light tan to gray

Odor:

None

pH value:

<9.5 (68°F)

Boiling point:

Not applicable

Pour point:

Vapor pressure:

Not determined Not applicable

Relative density (specific gravity):

2.5 (68°F)

Bulk Density (solids):

960 kg/m3

Solubility in water:

Insoluble

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Not applicable

DOWELL PRODUCT CODE: D020 Effective Date: 23-November-1999

% Volatile: <10

Nature Inert

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: None known

Materials to avoid:

Hazardous Polymerization:

None known

Will not occur.

Dust explosion hazard (solids): Not applicable.

Special hazards: None.

Hazardous decomposition products: None.

11. TOXICOLOGICAL INFORMATION

Eye contact: May cause mechanical irritation.

Skin contact: No effect expected. Prolonged or repeated contact

may cause mild irritation.

Inhalation: Mildly irritating.

Ingestion: No effect expected. Swallowing large amounts may

cause illness.

Carcinogenicity: This product may contain small amounts of respirable

crystalline silica. Inhalation of silica dust may cause

lung cancer.

Mutagenicity: Not known to cause heritable genetic damage.

Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: Lung

Sensitization: Not known to cause allergic reaction.

Other: None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

None known.

Not applicable

Fish Toxicity: Low toxicity to fish.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with 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 Clay, NOI

ICC Item Number: 48160 ICC Class: 50 LTL 35 TL

CERCLA RQ: Not established.

D020

Effective Date:

23-November-1999

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.

16. OTHER INFORMATION

Sections affected by last revision:

^{*}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.

Schlumberger

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D024

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

GILSONITE EXTENDER D24

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

GILSONITE; CAS 12002-43-6; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Granules

Color:

Black

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 0 Flammability 1 Reactivity 0

May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Rinse with water.

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:

Water Fog, Alcohol Foam, CO2, Dry Chemical

Further Information:

Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing

apparatus in closed areas.

Flash point:

> 212°F

D024

Effective Date:

23-November-1999

Method:

Not determined

Flammability (explosion limits in air):

Lower:

Not determined

Upper:

Not determined

Autoflammability (auto-ignition temperature):

Not determined

Explosive properties (thermal decomposition temperature):

Not determined

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

Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Scoop into containers.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Avoid generating dust.

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 (3M 8710).

Eye protection:

It is good practice to wear goggles when handling any

chemical.

Hand protection:

Impervious gloves.

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:

Granules

Color:

Black None

Odor: pH value:

Not applicable

Boiling point:

Not applicable

Pour point:

Not determined

Vapor pressure: Relative density (specific gravity): Not applicable 1.07 (68°F)

Bulk Density (solids):

800 kg/m3

Solubility in water:

Insoluble

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Not applicable

% Volatile:

Not applicable

DOWELL PRODUCT CODE: D024 Effective Date: 23-November-1999

Inert **Nature**

10. STABILITY AND REACTIVITY

Stability: Stable.

None known Conditions to avoid: Oxidizers Materials to avoid:

Hazardous Polymerization: Will not occur.

No. Dust explosion hazard (solids): None. Special hazards:

Hazardous decomposition products: When heated strongly or burned, oxides of carbon

and harmful organic chemical fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact: May cause mechanical irritation.

No effect expected. Prolonged or repeated contact Skin contact:

may cause mild irritation.

No effect expected. Prolonged or repeated exposure Inhalation:

may cause mild irritation.

No effect expected. Swallowing large amounts may Ingestion:

cause illness.

Not listed by IARC, USA NTP, or USA OSHA. Carcinogenicity: Not known to cause heritable genetic damage. Mutagenicity:

Not known to cause birth defects.

Teratogenicity:

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:

None known. Main environmental hazards: Not determined Degradability:

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with local regulations.

Send empty bags to sanitary landfill. Render other Container:

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

138640 ICC Class: 50 LTL ICC Item Number: 35 TL

CERCLA RQ: Not established.

Department of Transportation (DOT)

D024

Effective Date:

23-November-1999

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.

16. OTHER INFORMATION

Sections affected by last revision:

*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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Schumberger

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D029

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

CELLOPHANE FLAKE D29

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CELLOPHANE; CAS 9005-81-6; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Flakes

Color:

Clear

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

None.

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Flush eyes with water for 5 minutes. Get medical

attention if irritation occurs.

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:

Water Fog, Alcohol Foam, CO2, Dry Chemical

Further Information:

Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing

apparatus in closed areas.

D029

Effective Date:

23-November-1999

Flash point:

> 212°F

Method:

Not determined

Flammability (explosion limits in air):

Lower:

Not determined

Upper:

Not determined

Autoflammability (auto-ignition temperature):

Not determined

Explosive properties (thermal decomposition temperature):

Not determined

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

Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Scoop into containers.

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:

None normally needed. If dust or mist is generated

use NIOSH approved respirator with dust and mist

protection (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

None required.

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:

Flakes

Color:

Clear

Odor:

None

pH value:

Not applicable Not applicable

Boiling point: Pour point:

Not determined

Vapor pressure:

Not applicable

Relative density (specific gravity):

Not available 688 kg/m3

Bulk Density (solids): Solubility in water:

Insoluble

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Not applicable

DOWELL PRODUCT CODE: **D029** Effective Date: 23-November-1999

% Volatile: Not applicable

Nature Carbohyd.

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid:

Materials to avoid:

Oxidizers

Hazardous Polymerization: Will not occur.

Dust explosion hazard (solids): No.
Special hazards: None.

Hazardous decomposition products: When heated strongly or burned, oxides of carbon

and harmful organic chemical fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact: May cause mechanical irritation.

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.

Ingestion: No effect expected. Swallowing large amounts may

cause illness.

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:

Degradability:

None known.

Not determined

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with 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 35 TL

CERCLA RQ: Not established.

Department of Transportation (DOT)

D029

Effective Date:

23-November-1999

Designation:

Not Regulated

Hazard Class: Shipping Name: Not Regulated 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.

16. OTHER INFORMATION

Sections affected by last revision:

*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.

Schumberger

10 % BY WT. OF WATER

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D044

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

GRANULATED SALT D44

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

SODIUM CHLORIDE; CAS 7647-14-5; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Granules

White

Color: Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

None.

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

May be mildly irritating to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Flush eyes with water for 5 minutes. Get medical

attention if irritation occurs.

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

D044

Effective Date:

23-November-1999

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 0 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:

Keep material dry.

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 (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:

Granules

Color:

White

Odor:

None

pH value:

6-8 (at 5 g/l)

Boiling point: Pour point:

2575°F 1474°F

Vapor pressure:

0.13 kPa (865°F)

vapor pressure.

2.163 (68°F)

Bulk Density (solids):

1120 kg/m3

Bank Bonony (condo)

Solubility in water:

360 g/l (32°F)

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Relative density (specific gravity):

Not applicable

% Volatile:

<3

Nature

Salt

D044

Effective Date:

23-November-1999

10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to avoid:

None.

Materials to avoid:

None known

Hazardous Polymerization:

Will not occur.

Dust explosion hazard (solids):

Not applicable.

Special hazards:

None.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

Eye contact:

Mildly irritating.

Skin contact:

Prolonged or repeated exposure may damage skin.

No effect expected. Prolonged or repeated exposure Inhalation: may cause mild irritation.

Ingestion:

LD50 (rats) is greater than 2000 mg/kg. No effect

expected. Swallowing large amounts may cause

illness.

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:

Heart

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.

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

35 TL

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Not Regulated

D044

Effective Date:

23-November-1999

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.

16. OTHER INFORMATION

Sections affected by last revision:

*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.

Schumberger

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MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D046

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

ANTIFOAM D46

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

POLYPROPYLENE GLYCOL; CAS 25322-69-4; 30-60%

FULLER'S EARTH (ATTAPULGITE); CAS 8031-18-3; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Tan Musty

Odor:

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 0 Flammability 1 Reactivity 0

May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Flush eyes with water for 5 minutes. Get medical

attention if irritation occurs.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

Rinse mouth with water. Seek medical attention if

irritation occurs.

Notes:

None.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Water Fog, Alcohol Foam, CO2, Dry Chemical, Water

Further Information:

Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing

D046

Effective Date:

23-November-1999

apparatus in closed areas.

Flash point:

> 212°F

Method:

Pensky-Martens CC

Flammability (explosion limits in air):

Lower:

Not determined

Upper:

Not determined

Autoflammability (auto-ignition temperature):

Not determined

Explosive properties (thermal decomposition temperature):

Not determined

NFPA Rating: Health 0 Flammability 1 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:

Avoid generating dust.

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:

None normally needed. If dust or mist is generated

use NIOSH approved respirator with dust and mist

protection (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Cotton gloves.

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:

Tan

pH value:

Musty

pn value.

Not applicable

Boiling point: Pour point:

Not available

Vapor pressure:

Not determined Not determined

Relative density (specific gravity):

1.5 (68°F)

Bulk Density (solids):

816 kg/m3

. . . .

Solubility in water:

Insoluble

DOWELL PRODUCT CODE: D046 Effective Date: 23-November-1999

Viscosity: Not applicable

Relative Vapor Density (air=1):

% Volatile:

Low
<1

Nature Surfactant

10. STABILITY AND REACTIVITY

Special hazards:

Stability: Stable.

Conditions to avoid:

Materials to avoid:

Hazardous Polymerization:

None known

Acids Oxidizers

Will not occur.

Dust explosion hazard (solids): No.

Hazardous decomposition products: When heated strongly or burned, oxides of carbon

and harmful organic chemical fumes are released.

None.

11. TOXICOLOGICAL INFORMATION

Eye contact: May cause mechanical irritation.

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.

Ingestion: No effect expected. Swallowing large amounts may

cause illness.

Carcinogenicity: Not listed by IARC, USA NTP, or USA OSHA.

Mutagenicity: Not known to cause heritable genetic damage.

January Control of the Control of th

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: Partially biodegradable.
Fish Toxicity: Low toxicity to fish.

13. DISPOSAL CONSIDERATIONS

Product: Ship via permitted waste hauler to permitted

hazardous waste disposal facility for landfilling.

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.

Effective Date:

23-November-1999

14. TRANSPORT INFORMATION

ICC Tariff Classification

Compound, Gas or Oil Well Drilling

ICC Item Number:

138640

ICC Class:

50 LTL

35 TL

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.

16. OTHER INFORMATION

Sections affected by last revision:

^{*}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.

Schumberger

35% 70 50% OF BASE SYSTEM

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D048

Effective Date:

24-January-2000

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

Identification of the substance or preparation:

LITEPOZ 6 EXTENDER D48

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CRYSTALLINE SILICA; CAS 14808-60-7; 40 - 70% ALUMINUM OXIDE; CAS 1344-28-1; 40 - 70%

HEMATITE (DIIRON TRIOXIDE); CAS 1309-37-1; 40 - 70%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Tan to gray

Odor:

Typical

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 lung cancer if inhaled. Risk of cancer depends on duration and level of exposure. Silica dust may cause silicosis. May cause eye irritation. May cause respiratory tract irritation. May cause skin 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:

Remove contaminated clothes and shoes. Wash thoroughly with soap and water. Seek medical

attention if irritation occurs.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

DO NOT induce vomiting. Give 2 glasses of milk

(preferred) or water and seek medical attention at

once.

D048

Effective Date:

24-January-2000

Notes:

None.

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not combustible.

Method:

Not applicable

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:

Vacuum up. Avoid generating dust.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Keep material dry.

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 (3M 8710). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA

respirator.

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: Rubber

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

DOWELL PRODUCT CODE: D048 Effective Date: 24-January-2000 **CRYSTALLINE SILICA ALUMINUM OXIDE HEMATITE (DIRON** TRIOXIDE) STEL ANM TWA STEL ANM TWA STEL ANM TWA **CANADA** ND ND ND ND ND ND NE 10 NE 5 NE USA: ACGIH 0.1 USA: NIOSH 5 NE 5 NE 10 NE USA: OSHA 0.1 ΝE

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Powder Color: Tan to gray Typical Odor:

pH value: Not applicable Boiling point: Not determined Not determined Pour point: Not applicable Vapor pressure: Relative density (specific gravity): 2.2-2.6 (68°F) Bulk Density (solids): Not determined Miscible with water Solubility in water: Not applicable Viscosity: Relative Vapor Density (air=1): Not applicable

% Volatile: <6 Inert Nature

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: None known

Acids Materials to avoid:

Will not occur. Hazardous Polymerization:

Dust explosion hazard (solids): No. Special hazards: None. Hazardous decomposition products: None.

11. TOXICOLOGICAL INFORMATION

Eye contact: Irritant. May cause pain, redness, discomfort. Skin contact: Irritant; may cause pain, redness, dermatitis.

Inhalation: Repeated exposure to silica dust may cause silicosis.

Irritant; may cause pain and coughing.

Ingestion: Irritant; may cause pain or discomfort to mouth, throat

and stomach.

Carcinogenicity: Inhalation of crystalline silica dust is listed by IARC as

known to cause lung cancer in humans. Repeated

and prolonged exposure increases the risk.

Not known to cause heritable genetic damage. Mutagenicity:

Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: Lung

Sensitization: Not known to cause allergic reaction.

D048

Effective Date:

24-January-2000

Other:

None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

None known.

Degradability:

Not applicable

13. DISPOSAL CONSIDERATIONS

Product:

Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

35 TL

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: D2A

<i>y</i> .				
DOWELL PRODUCT CODE:	D048	Effective Date:	24-January-2000	

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.

Schumberger

51.85 Lbs /SACK

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE: D049 Effective Date: 14-April-2000

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

Identification of the substance or preparation:

TRINITY LITE WATE CEMENT D49

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CALCIUM ALUMINUM SILICATES; CAS; 60 - 100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Gray

Odor:

Typical

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 allergic reaction upon repeated skin exposure. May cause eye irritation. May cause respiratory tract irritation. May cause skin 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: Remove contaminated clothes and shoes. Wash

thoroughly with soap and water. Seek medical

attention if irritation occurs.

Inhalation: Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing: DO NOT induce vomiting. Give 2 glasses of milk

(preferred) or water and seek medical attention at

once.

Notes: None.

DOWELL PRODUCT CODE: **D049** Effective Date: 14-April-2000

5. FIRE FIGHTING MEASURES

Extinguishing media: None needed Further Information: None known.

Flash point: Not combustible.

Method: Not applicable

Flammability (explosion limits in air):

Lower: Not applicable

Upper: Not applicable

Autoflammability (auto-ignition temperature):

Explosive properties (thermal decomposition temperature):

Not determined

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: Keep material dry.

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 (3M 8710).

Eye protection: Chemical splash goggles.

Hand protection: Impervious gloves made of: Rubber

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: Gray Odor: Typical

pH value:

Boiling point:

Pour point:

Vapor pressure:

Not applicable

Not applicable

Not applicable

Relative density (specific gravity): 2.6-3.0

Bulk Density (solids): 1200 kg/m3

DOWELL PRODUCT CODE: D049 Effective Date: 14-April-2000

Solubility in water: Miscible with water

Viscosity: Not applicable Relative Vapor Density (air=1): Not applicable

% Volatile: <1

Nature Alkaline

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: None known

Materials to avoid: Acids

Hazardous Polymerization: Will not occur.

Dust explosion hazard (solids):

Special hazards:

No.

No.

None.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

Eye contact: Irritant. May cause pain, redness, discomfort. Skin contact: Irritant; may cause pain, redness, dermatitis.

Inhalation: Irritant; may cause pain and coughing.

Ingestion: Irritant; may cause pain or discomfort to mouth, throat

and stomach.

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: May cause allergic reaction upon repeated skin

exposure.

Other: None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

None known.

Not applicable

Low toxicity to fish.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

D049

Effective Date:

14-April-2000

14. TRANSPORT INFORMATION

ICC Tariff Classification

Cement

ICC Item Number:

42130

ICC Class:

50 LTL

35 TL

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:

Some components of this material are not on the Canada DSL.

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:

REGULATORY INFORMATION

^{*}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.

Schumberger

10% OF BASE

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D053

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

CEMENT AGENT D53

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CALCIUM SULFATE HEMIHYDRATE (PLASTER OF PARIS); CAS 10034-76-1; 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 0 Flammability 0 Reactivity 0

May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Rinse with water.

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

Flammability (explosion limits in air):

D053

Effective Date:

23-November-1999

Lower:

Not applicable

Upper:

Not applicable

Autoflammability (auto-ignition temperature):

Not applicable
Not determined

Explosive properties (thermal decomposition temperature):

Combustion products: see Section 10.

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

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Scoop into containers.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Keep material dry.

Packaging requirements:

Bag with moisture barrier.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves.

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:

Not applicable

Boiling point:

Not applicable

Davis

Not applicable

Pour point:

Vapor pressure:

Not applicable

Relative density (specific gravity):

2.4 (68°F) 800-1300 kg/m3

Bulk Density (solids):

3 g/l (68°F)

Solubility in water:

Not applicable

Viscosity: Relative Vapor Density (air=1):

Not applicable

% Volatile:

0

Nature

Salt

D053

Effective Date:

23-November-1999

10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to avoid:

None known

Materials to avoid:

None known

Hazardous Polymerization:

Will not occur.

Dust explosion hazard (solids):

Not applicable.

Special hazards:

None.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

Eve contact:

May cause mechanical irritation.

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.

Inaestion:

Mildly irritating.

Carcinogenicity: Mutagenicity:

Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage.

Not known to cause birth defects.

Target organs which may be affected:

None known.

Sensitization:

Teratogenicity:

Not known to cause allergic reaction.

Other:

None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards: Degradability:

None known.

Not applicable

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

35 TL

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Hazard Class:

Shipping Name:

Not Regulated

DOT Label:

DOWELL PRODUCT CODE: D053 Effective Date: 23-November-1999

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.

16. OTHER INFORMATION

Sections affected by last revision:

^{*}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.

Schlmberger

0.15% BY WT. OF BASE

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D065

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

TIC* D65 DISPERSANT

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

SODIUM POLYNAPHTHALENE SULFONATE; CAS 9008-63-3; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Tan

Odor:

Faint

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

None.

Main Health Hazards:

HMIS RATING: Health 2 Flammability 1 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:

Water Fog, Alcohol Foam, CO2, Dry Chemical, Water

Further Information:

Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing

apparatus in closed areas.

DOWELL PRODUCT CODE: D065 Effective Date: 23-November-1999

Flash point: > 212°F
Method: Setaflash CC

Flammability (explosion limits in air):

Lower: Not determined

Upper:

Not determined

Autoflammability (auto-ignition temperature):

Not determined

Explosive properties (thermal decomposition temperature):

Not determined

NFPA Rating: Health 2 Flammability 1 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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

None required.

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: Tan Odor: Faint

pH value: 9-11 (68°F) (at 10 g/l)

Boiling point:

Pour point:

Not applicable

Not determined

Vapor pressure:

Not determined

Not determined

Not determined

Not determined

Not determined

Not determined

Relative density (specific gravity):

0.8 (68°F)

Bulk Density (solids):

608 kg/m3

Bulk Density (solids): 608 kg/m3
Solubility in water: Soluble 68°F

Viscosity: Not applicable Relative Vapor Density (air=1): Not applicable

DOWELL PRODUCT CODE: D065 Effective Date: 23-November-1999

% Volatile: 5

Nature Surfactant

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid:

Materials to avoid:

Hazardous Polymerization:

None known
Oxidizers
Will not occur.

Dust explosion hazard (solids): No.
Special hazards: None.

Hazardous decomposition products: When heated strongly or burned, oxides of carbon,

sulfur oxides and harmful organic chemical fumes are

released.

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.

Ingestion: No effect expected. Swallowing large amounts may

cause illness. LD50 (rats) > 2000 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 biodegradable. COD = 1.2 p/p

Acute invertebrates toxicity: Chaetogammarus marinus LC50 (96h) = >1000 mg/l
Growth Inhibition (algae): Phaeodactylum tricornutum EC50 (72h) = 33 mg/l

Information on components:

CHEMICAL NAME: SODIUM POLYNAPHTHALENE SULFONATE

Invertebrate Tox: LC50=(96hr) >1000 mg/l Species: Chaetogammarus marinus Growth Inhibition Algae: EC50=(72hr) 33 mg/l Species: Phaeodactylum tricornutum

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

DOWELL PRODUCT CODE: D065 Eff

Effective Date:

23-November-1999

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

35 TL

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:

*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.

Schumberger

10% ob BASE UULUME

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D066

Effective Date:

24-January-2000

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

Identification of the substance or preparation:

SILICA FLOUR D66

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CRYSTALLINE SILICA; CAS 14808-60-7; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color: Odor: White to tan

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

May cause lung cancer if inhaled. Risk of cancer depends on duration and level of exposure. Silica

dust may cause silicosis. May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eve contact:

Rinse with water.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

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.

D066

Effective Date:

24-January-2000

Method:

Not applicable

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 0 Flammability 0 Reactivity 0 Other: None

Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Vacuum up. Avoid generating dust.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Avoid generating dust.

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 (3M 8710). If dust concentration exceeds 5

times the exposure limit, wear an approved HEPA

respirator.

Eye protection:

Chemical splash goggles.

Hand protection:

Cotton gloves.

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

CRYSTALLINE SILICA

TWA STEL ANM

CANADA USA: ACGIH ND ND

USA: OSHA

0.1 NE 0.1 NE

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:

Powder

Color:

White to tan

Odor:

None

pH value:

Not applicable

Boiling point:

3992°F

DOWELL PRODUCT CODE: D066 Effective Date: 24-January-2000 Not applicable Pour point: Vapor pressure: Not applicable 2.6 (68°F) Relative density (specific gravity): 1120 kg/m3 Bulk Density (solids): Insoluble Solubility in water: Not applicable Viscosity: Not applicable Relative Vapor Density (air=1): 0 % Volatile:

Inert

10. STABILITY AND REACTIVITY

Nature

Stability: Stable.

Conditions to avoid:

Materials to avoid:

Hazardous Polymerization:

Dust explosion hazard (solids):

None known

Will not occur.

Not applicable.

Special hazards:

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

Eye contact: May cause mechanical irritation.

Skin contact: No effect expected. Prolonged or repeated contact

may cause mild irritation.

Inhalation: Repeated exposure to silica dust may cause silicosis.

Ingestion: No effect expected. Swallowing large amounts may

cause illness.

Carcinogenicity: Inhalation of crystalline silica dust is listed by IARC as

known to cause lung cancer in humans. Repeated

and prolonged exposure increases the risk.

Mutagenicity: Not known to cause heritable genetic damage.

Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: Lung

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.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with local regulations.

Container: Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or

types of containers unuseable by puncturing of

crushing and sanitary landfill unless prohibited by local

D066

Effective Date:

24-January-2000

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

35 TL

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: D2A

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.

Schlumberger

3% BY WT. OF BASE

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D079

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

CHEMICAL EXTENDER D79

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

DISODIUM METASILICATE; CAS 6834-92-0; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Crystals

Color:

White

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 3 Flammability 0 Reactivity 0

Causes burns to mouth, throat and stomach. Causes severe eye burns. Causes severe skin burns.

Harmful if swallowed. Causes respiratory tract irritation.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eve contact:

Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention at once.

Skin contact:

Immediately remove contaminated clothes and shoes.

Wash with soap and water for 15 minutes. Seek

medical attention.

Inhalation:

Remove to fresh air. Seek medical attention at once. If

breathing has stopped, begin artificial respiration.

Swallowing:

DO NOT induce vomiting. Give 2 glasses of milk (preferred) or water and seek medical attention at

once.

Notes:

None.

D079

Effective Date:

23-November-1999

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not combustible.

Method:

Not applicable

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 3 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:

Keep material dry.

Packaging requirements:

Bag with moisture barrier.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: Neoprene

Skin protection:

Clean, body-covering clothing. For spills and emergencies, also wear boots and impervious suit.

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:

Crystals

Color:

White

Odor:

None

pH value:

12.6 (at 10 g/l)

Boiling point: Pour point:

Not applicable

Vapor pressure:

1990°F

Not applicable

Relative density (specific gravity): Bulk Density (solids):

2.4 (72°F)

Solubility in water:

Not determined 270 (86°F)

DOWELL PRODUCT CODE: D079 Effective Date: 23-November-1999

Viscosity: Not applicable
Relative Vapor Density (air=1): Not applicable
% Volatile: 0

% Volatile: 0
Nature Alkaline

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: None known

Materials to avoid: Acids

Hazardous Polymerization: Will not occur.

Dust explosion hazard (solids): Not applicable.

Special hazards:

Hazardous decomposition products:

None.

None.

11. TOXICOLOGICAL INFORMATION

Eye contact: Corrosive. Rapidly causes pain, burns, corneal injury.

May cause permanent damage and blindness.

Skin contact: Corrosive; rapidly causes pain, burns, redness,

swelling and damage to tissue.

Inhalation: Severe irritant; causes pain, choking, coughing,

burning sensation.

Ingestion: Corrosive; causes pain and severe burns to mouth,

throat and stomach. Harmful if swallowed; large amounts may cause illness. LD50 (rats) 1153 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: Reproductive

Sensitization: Not known to cause allergic reaction.

Other: May cause dizziness, nausea, vomiting, diarrhea.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

None known.

Not applicable

13. DISPOSAL CONSIDERATIONS

Product: Hazardous waste landfill. Material may be acceptable

in some sanitary landfills; check local regulations.

Container: Sell to approved drum reconditioner or render

container unuseable by puncturing or crushing. Send

to sanitary landfill unless prohibited by local

regulations.

USA EPA RCRA: D002

D079

Effective Date:

23-November-1999

14. TRANSPORT INFORMATION

ICC Tariff Classification

Compound, Gas or Oil Well Drilling

ICC Item Number:

138640

ICC Class:

50 LTL

35 TI

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Hazardous Material

Hazard Class:

8

Shipping Name:

Corrosive solid, basic, inorganic, n.o.s. (contains sodium metasilicate), 8, UN

3262, PG II

DOT Label:

Corrosive 8

Canadian Shipments

Shipping Name:

Corrosive solid, n.o.s. (contains sodium metasilicate)

Label:

Corrosive 8

Classification:

8, 9.2

Package Group: II

PIN:

UN 1759

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: E, D2B, E

16. OTHER INFORMATION

Sections affected by last revision:

*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.



O. 6% BY WT. of BASC MATERIAL SAFETY DATA SHEET

(Complies with USA OSHA 29 CFR 1910,1200 and ANSI Z 400.1)

DOWELL PRODUCT CODE:

D112

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

FLAC* D112 FLUID-LOSS ADDITIVE

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

HYDROXYETHYLCELLULOSE; CAS 9004-62-0; 60-100%

SODIUM NITRATE: CAS 7631-99-4; 6%

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 Water slick

Main Health Hazards:

HMIS RATING: Health 0 Flammability 1 Reactivity 0

May be mildly irritating to eyes.

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:

Water Fog, Alcohol Foam, CO2, Dry Chemical

Further Information:

Wear protective fire fighting clothing and avoid

breathing vapors. Use self-contained breathing

D112

Effective Date:

23-November-1999

apparatus in closed areas.

Flash point:

> 212°F

Method:

Not determined

Flammability (explosion limits in air):

Lower:

2.4%

Upper:

Not determined

Autoflammability (auto-ignition temperature):

Not determined

Explosive properties (thermal decomposition temperature):

Not determined

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

Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Scoop into containers. Avoid generating dust. Use water carefully; slick when wet. If vacuum sweeper is used, it must be rated to handle explosive dusts.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Avoid wetting spilled material. Avoid generating dust.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Cotton gloves.

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: Odor: White None

pH value:

6.5-8.5 (68°F) (at 20 g/l)

Boiling point:

Decomposes 482°F

Pour point:

Not determined

Vapor pressure:

Not applicable

Relative density (specific gravity):

1.5-1.6

Bulk Density (solids):

464 kg/m3

Solubility in water:

Soluble 68°F

D112

Effective Date:

23-November-1999

Viscosity:

Relative Vapor Density (air=1):

Not applicable Not applicable

% Volatile:

5

Nature

Carbohyd.

10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to avoid:

None known

Materials to avoid:

Oxidizers

Hazardous Polymerization:

Will not occur.

Dust explosion hazard (solids):

No.

Special hazards:

None.

Hazardous decomposition products:

When heated strongly or burned, oxides of carbon.

nitrogen oxides, ammonia and harmful organic

chemical fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact:

Mildly irritating.

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.

Ingestion:

No effect expected. Swallowing large amounts may

cause illness.

Carcinogenicity:

Not listed by IARC, USA NTP, or USA OSHA.

Mutagenicity: Teratogenicity: Not known to cause heritable genetic damage. Not known to cause birth defects.

Target organs which may be affected:

Blood

Sensitization:

Not known to cause allergic reaction.

Other:

None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

None known.

Degradability:

Biodegradable.

Acute invertebrates toxicity:

Chaetogammarus marinus LC50 (96h) = >1000 mg/l

Growth Inhibition (algae):

Phaeodactylum tricornutum EC50 (72h) = >1000 mg/l

Information on components:

CHEMICAL NAME: HYDROXYETHYLCELLULOSE

Invertebrate Tox: LC50=(96hr) >1000 mg/l Species: Chaetogammarus marinus

Growth Inhibition Algae: EC50=(72hr) >1000 mg/l Species: Phaeodactylum tricornutum

Partition Coefficient:

D112

Effective Date:

23-November-1999

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

35 TL

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.

16. OTHER INFORMATION

Sections affected by last revision:

^{*}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.

Schlumberger

42.97 188./SACY

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D124

Effective Date:

23-November-1999

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

Identification of the substance or preparation:

LITEFIL* D124 EXTENDER

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

ALUMINUM SILICATE; CAS 12141-46-7; 60 - 100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Tan to gray

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Flush eyes with water for 5 minutes. Get medical

attention if irritation occurs.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

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.

D124

Effective Date:

23-November-1999

Method:

Not applicable

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 0 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:

Keep material dry.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Cotton gloves.

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:

Tan to gray

Odor:

None

pH value:

Not applicable

Boiling point:

Not determined Not determined

Pour point: Vapor pressure:

Not determined

Relative density (specific gravity):

Not determined

Bulk Density (solids):

384 kg/m3

Solubility in water:

insoluble

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Not applicable

% Volatile:

<6

D124

Effective Date:

23-November-1999

Nature

Inert

10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to avoid:

None known

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:

May cause mechanical irritation.

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.

Ingestion:

No effect expected. Swallowing large amounts may

cause illness.

Carcinogenicity:

Not listed by IARC, USA NTP, or USA OSHA.

Mutagenicity: Teratogenicity: Not known to cause heritable genetic damage. Not known to cause birth defects.

Target organs which may be affected:

None known.

Sensitization:

Not known to cause allergic reaction.

None.

Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

None known.

Degradability:

Not applicable

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

35 TL

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Not Regulated

D124

Effective Date:

23-November-1999

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.

16. OTHER INFORMATION

Sections affected by last revision:

*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.

Schumberger

5018 LBS/SACY

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D154

Effective Date:

30-June-2000

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

Identification of the substance or preparation:

LOW-TEMPERATURE EXTENDER D154

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

PROPRIETARY MIXTURE CONTAINING:

NONCRYSTALLINE SILICA; 60-100%

CARBON; CAS 7440-44-0; 0-3%

INORGANIC OXYGEN COMPOUND; <2%

INORGANIC OXYGEN COMPOUND; <3.5%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Gray to white

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may

cause lung cancer. Silica dust may cause silicosis.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Rinse with water.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

Rinse mouth with water. Seek medical attention if

irritation occurs.

Notes:

None.

D154

Effective Date:

30-June-2000

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not applicable

Method:

Flammability (explosion limits in air):

Lower:

Not applicable

Upper:

Not applicable

Autoflammability (auto-ignition temperature):

> (200°F)

The state of the s

- (200°F)

Explosive properties (thermal decomposition temperature):

Not determined

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

Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Vacuum up. Avoid generating dust.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Avoid generating dust.

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 (3M 8710). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA

respirator.

Eye protection:

It is good practice to wear goggles when handling any

chemical.

Hand protection:

Cotton gloves.

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

	NONCRYSTALLINE SILICA		INORGANIC OXYGEN COMPOUND		INORGANIC OXYGEN COMPOUND	
	TWA	STEL_ANM	TWA	STEL ANM	TWA	STEL ANM
CANADA	ND	ND	ND	ND	ND	ND
USA: ACGIH	0.1(id)	NE	10	NE	5	NE
USA: NIOSH	5	NE				•
USA: OSHA	0.1	NE	5	NE	10	NE

Effective Date:

30-June-2000

D154

9. PHYSICAL AND CHEMICAL PROPERTIES

DOWELL PRODUCT CODE:

Powder Form: Color: Gray to white Odor: None pH value: Not applicable

Boiling point: Not applicable Pour point: 3115°F

Vapor pressure: Not applicable 2.1 Relative density (specific gravity):

500-600 kg/m3 Bulk Density (solids):

Solubility in water: Insoluble Viscosity: Not applicable Not applicable Relative Vapor Density (air=1):

% Volatile: 0 **Nature** Inert

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: None known Materials to avoid: None known Hazardous Polymerization: Will not occur.

Dust explosion hazard (solids): No. Special hazards: None. None.

Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION Eye contact: No effect expected. Prolonged or repeated contact

may cause mild irritation.

Skin contact: No effect expected. Prolonged or repeated contact

may cause mild irritation.

Inhalation: Repeated exposure to silica dust may cause silicosis.

Ingestion: No effect expected. Swallowing large amounts may

cause illness.

Carcinogenicity: This product may contain small amounts of respirable

crystalline silica. Inhalation of silica dust may cause

lung cancer.

Not known to cause heritable genetic damage. Mutagenicity:

Teratogenicity: Not known to cause birth defects.

D154

Effective Date:

30-June-2000

Target organs which may be affected:

Sensitization:

None known.

Other:

Not known to cause allergic reaction.

None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

None known.

Not applicable

13. DISPOSAL CONSIDERATIONS

Product:

Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

35 TL

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

D154

Effective Date:

30-June-2000

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.

16. OTHER INFORMATION

Sections affected by last revision:
PHYSICAL AND CHEMICAL PROPERTIES

*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.

Schlumberger

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D156

Effective Date:

14-April-2000

0.15% BY CUT.

OF BASE

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

Identification of the substance or preparation:

LOW-TEMPERATURE FLUID-LOSS ADDITIVE D156

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

PROPRIETARY MIXTURE CONTAINING:

ALIPHATIC AMINE COPOLYMER; 60-100%

2-METHYLPROPAN-2-OL; CAS 75-65-0; 5-10%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Light yellow

Odor:

Faint

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

Explosive with dry bromates.

Physical Hazard:

Dust explode Water slick

Main Health Hazards:

HMIS RATING: Health 0 Flammability 1 Reactivity 0

May be mildly irritating to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Flush eyes with water for 5 minutes. Get medical

attention if irritation occurs.

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:

Water Fog, Alcohol Foam, CO2, Dry Chemical

Further Information:

Wear protective fire fighting clothing and avoid

D156

Effective Date:

14-April-2000

breathing vapors. Use self-contained breathing apparatus in closed areas. Slick when wet. Suspended dust may present a dust explosion

hazard.

Flash point:

> 212°F Calculated

Method:

Flammability (explosion limits in air):

Lower:

Not determined

Upper:

Not determined

Autoflammability (auto-ignition temperature):

Not determined

Autonaminability (auto-ignition temperature).

Not determined

Explosive properties (thermal decomposition temperature): NFPA Rating: Health 2 Flammability 1 Reactivity 0 Other: None

Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

Scoop into containers. Avoid generating dust. Use water carefully; slick when wet. If vacuum sweeper is used, it must be rated to handle explosive dusts.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Do not store, transport with or allow to contact dry

bromates (See SLPM Std. 17). Avoid wetting spilled

material. Avoid generating dust.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: Rubber

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

Effective Date:

14-April-2000

2-METHYLPROPAN-2-

TWA STEL ANM

455

CANADA

ND

ND

USA: ACGIH

303

USA: OSHA

300 450

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:

Color:

Odor:

pH value:

Boiling point:

Pour point:

Vapor pressure:

Relative density (specific gravity):

Bulk Density (solids):

Solubility in water: Viscosity:

Relative Vapor Density (air=1):

% Volatile:

Nature

Powder

Light yellow

Faint

6-7 (68°F) (at 10 g/l)

Not applicable

572°F

Not applicable

1.26 (68°F) 250 kg/m3

Soluble 68°F

Not applicable

Not applicable

Not determined

Polymer

10. STABILITY AND REACTIVITY

Stability:

Conditions to avoid:

Materials to avoid:

Hazardous Polymerization:

Dust explosion hazard (solids):

Special hazards:

Hazardous decomposition products:

Stable.

None known

Not determined

Will not occur.

Yes.

Explosive with dry bromates.

When heated strongly or burned, oxides of carbon.

sulfur oxides, nitrogen oxides, ammonia and harmful

organic fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact:

Mildly irritating.

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.

No effect expected. Swallowing large amounts may Ingestion:

cause illness. LD50 (rats) > 2000 mg/kg.

Carcinogenicity: Not listed by IARC, USA NTP, or USA OSHA.

Not known to cause heritable genetic damage. Mutagenicity:

Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: None known.

Not known to cause allergic reaction. Sensitization:

DOWELL PRODUCT CODE: D156 Effective Date: 14-April-2000

Other:

None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

None known.

Degradability:

Partially biodegradable. 10 to 30%; COD = 858 mg/g

Acute invertebrates toxicity:

Chaetogammarus marinus LC50 (96h) = >1000 mg/l

Growth Inhibition (algae):

Skeletonema costatum EC50 (72H) = 790 mg/l

Information on components:

CHEMICAL NAME: 2-METHYLPROPAN-2-OL

Fish Tox - Fresh Water: LC50=(7D) 3350 PPM Species: Poecilia reticulata

13. DISPOSAL CONSIDERATIONS

Product: May be incinerated (preferred) or hazardous waste

landfilled. 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 35 TL

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

DOWELL PRODUCT CODE: D156 Effective Date: 14-April-2000

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:

Some components of this material are not on the Canada DSL.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of USA Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:

2-METHYLPROPAN-2-OL; 75-65-0; 2-8%

The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: Not established.

16. OTHER INFORMATION

Sections affected by last revision: REGULATORY INFORMATION

*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.

Schumberger 100% of BASE

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D163

Effective Date:

24-January-2000

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

Identification of the substance or preparation:

Microfine Cement D163

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CALCIUM SILICATE; CAS 12168-85-3; 60 - 100% CALCIUM ALUMINATE; CAS 12042-68-1; 40 - 70% CRYSTALLINE SILICA; CAS 14808-60-7; <1%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Gray

Odor:

Typical

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 allergic reaction upon repeated skin exposure. This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause lung cancer. May cause eye irritation. May cause respiratory tract irritation. May cause skin 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:

Remove contaminated clothes and shoes. Wash thoroughly with soap and water. Seek medical

attention if irritation occurs.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

If several grams are swallowed, give 2 glasses of milk

(preferred) or water and seek medical advice.

Notes:

None.

D163

Effective Date:

24-January-2000

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not combustible.

Method:

Not applicable

Flammability (explosion limits in air):

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:

Vacuum up. Avoid generating dust.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Special Precautions:

Avoid generating dust.

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 (3M 8710). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA

respirator.

Eye protection:

It is good practice to wear goggles when handling any

chemical.

Hand protection:

Impervious gloves made of: Rubber

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

CRYSTALLINE SILICA

TWA STEL ANM

CANADA USA: ACGIH ND

ND 0.1 NE

USA: OSHA

0.1 NE

Effective Date:

24-January-2000

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Color:

Odor:

pH value: **Boiling point:** Pour point:

Vapor pressure:

Relative density (specific gravity):

Bulk Density (solids):

Solubility in water: Viscosity:

Relative Vapor Density (air=1):

% Volatile:

Nature

Powder

Gray

Typical

in water 12.4 Not applicable

Not applicable Not applicable

3.0

1040 kg/m3

Low

Not determined

Not applicable Not determined

Alkaline

10. STABILITY AND REACTIVITY

Stability:

Conditions to avoid:

Materials to avoid:

Hazardous Polymerization:

Dust explosion hazard (solids): Special hazards:

Hazardous decomposition products:

Stable.

None known

Acids

Will not occur.

and stomach.

lung cancer.

Lung

Irritant. May cause pain, redness, discomfort. Irritant; may cause pain, redness, dermatitis.

Irritant; may cause pain or discomfort to mouth, throat

This product may contain small amounts of respirable

crystalline silica. Inhalation of silica dust may cause

Not known to cause heritable genetic damage.

May cause allergic reaction upon repeated skin

Irritant; may cause pain and coughing.

Not known to cause birth defects.

No. None.

None.

11. TOXICOLOGICAL INFORMATION

Eye contact:

Skin contact:

Inhalation: Ingestion:

Carcinogenicity:

Mutagenicity:

Teratogenicity:

Sensitization:

Target organs which may be affected:

exposure. None. Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

None known.

D163

Effective Date:

24-January-2000

13. DISPOSAL CONSIDERATIONS

Product:

Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

35 TL

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Not Regulated

Hazard Class:

Not Regulated Not Regulated

Shipping Name:

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.

Schlumberger

P. 47 LW/spey

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D164

Effective Date:

14-April-2000

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

Identification of the substance or preparation:

CemCRETE* Stabilizer D164

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

PROPRIETARY MIXTURE CONTAINING:

METAL OXIDE: 60 - 100%

GLUCOSIDE POLYMER; 0.1 - 1%

CRYSTALLINE SILICA; CAS 14808-60-7; 1 - 5%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Gray

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

None.

Main Health Hazards:

HMIS RATING: Health 0 Flammability 0 Reactivity 0

This product may contain small amounts of respirable crystalline silica. Inhalation of silica dust may cause lung cancer. Silica dust may cause silicosis. May cause mechanical irritation to eyes.

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Eye contact:

Rinse with water.

Skin contact:

Rinse with water.

Inhalation:

Remove to fresh air.

Swallowing:

Rinse mouth with water. Seek medical attention if

irritation occurs.

Notes:

None.

D164

Effective Date:

14-April-2000

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not combustible.

Method:

Not applicable

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 0 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 (3M 8710). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA

respirator.

Eve protection:

Chemical splash goggles.

Hand protection:

Impervious gloves.

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Components having no established limits are not listed.

(NE: Not established, ND: Not determined)

These numbers may be referred to as OEL, MAC, MAK, MEL, OES, REL, PEL, or TLV.

TWA is the 8 hour time weighted average. STEL is the short term exposure limit.

"C" indicates the value is a maximum concentration (ceiling).

CRYSTALLINE SILICA

TWA STEL ANM

CANADA

ND ND

USA: ACGIH

0.1 NE

USA: OSHA

0.1

NE

DOWELL PRODUCT CODE: D164 Effective Date:

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Powder Color: Gray Odor: None

pH value: 8-9 (68°F) (at 20 g/l)

Boiling point:

Pour point:

Not applicable

Vapor pressure:

Relative density (specific gravity):

Not applicable

2.4 (68°F)

Bulk Density (solids):

2.4 (08°F)

Not determined

Solubility in water: Insoluble

Viscosity: Not applicable Relative Vapor Density (air=1): Not applicable

% Volatile: Not applicable

Nature Inert

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid:

Materials to avoid:

None known

None known

Hazardous Polymerization: Will not occur.

Dust explosion hazard (solids): No.

Special hazards:
Hazardous decomposition products:
None.

11. TOXICOLOGICAL INFORMATION

Eye contact: May cause mechanical irritation.

Skin contact: No effect expected. Prolonged or repeated contact

may cause mild irritation.

Inhalation: Repeated exposure to silica dust may cause silicosis.

Ingestion: No effect expected. Swallowing large amounts may cause illness.

Cause III Jess.

Carcinogenicity: This product may contain small amounts of respirable

crystalline silica. Inhalation of silica dust may cause

14-April-2000

lung cancer.

Mutagenicity: Not known to cause heritable genetic damage.

Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: Lung

Sensitization: Not known to cause allergic reaction.

Other: None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards: None known.

D164

Effective Date:

14-April-2000

13. DISPOSAL CONSIDERATIONS

Product:

Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

35 TL

CERCLA RQ:

Not established.

Department of Transportation (DOT)

Designation:

Not Regulated

Hazard Class:

Not Regulated

Shipping Name:

Not Regulated

DOT Label:

none

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:

Some components of this material are not on the Canada DSL.

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.

16. OTHER INFORMATION

Sections affected by last revision: REGULATORY INFORMATION

*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.

Schumberger

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MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D800

Effective Date:

24-November-1999

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

Identification of the substance or preparation:

MID-TEMP RETARDER-S D800

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

PROPRIETARY MIXTURE CONTAINING:

AROMATIC POLYMER DERIVATIVE; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Dark brown

Odor:

Mild

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust explode

Main Health Hazards:

HMIS RATING: Health 2 Flammability 3 Reactivity 0

May cause allergic reaction upon repeated skin exposure. May cause eye irritation. May cause

respiratory tract irritation. May cause skin 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:

Immediately remove contaminated clothes and shoes. Wash with soap and water for 15 minutes. Seek

medical attention.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

If several grams are swallowed, give 2 glasses of milk

(preferred) or water and seek medical advice.

Notes:

None.

Effective Date: 2

24-November-1999

5. FIRE FIGHTING MEASURES

Extinguishing media:

Water Fog, Alcohol Foam, CO2, Dry Chemical

Further Information:

Wear protective fire fighting clothing and avoid

breathing vapors. Use self-contained breathing apparatus in closed areas. Dust explosion hazard.

Flash point:

> 212°F

Method:

Not determined

Flammability (explosion limits in air):

Lower:

Not determined

Upper:

Not determined

Autoflammability (auto-ignition temperature):

Not determined

Not determined

Explosive properties (thermal decomposition temperature): NFPA Rating: Health 2 Flammability 3 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:

Avoid generating dust.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves.

Skin protection:

Clean, body-covering clothing. For spills and

emergencies, also wear boots and impervious suit.

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

Dark brown

Color: Odor:

Mild

pH value:

9 (68°F) (at 50 g/l)

privatue.

علما ممالم ماما

Boiling point:

Not applicable

Pour point:

Not determined

Vapor pressure:

Not applicable

DOWELL PRODUCT CODE: D800 Effective Date: 24-November-1999 1.26 (68°F) Relative density (specific gravity): Bulk Density (solids): 649.6 kg/m3 Soluble 68°F Solubility in water: Not applicable Viscosity: Not applicable Relative Vapor Density (air=1): % Volatile: <10 Nature Carbohyd.

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid:

Materials to avoid:

Hazardous Polymerization:

None known
Oxidizers
Will not occur.

Dust explosion hazard (solids): Yes.
Special hazards: None.

Hazardous decomposition products: When heated strongly or burned, oxides of carbon,

sulfur oxides and harmful organic chemical fumes are

released.

11. TOXICOLOGICAL INFORMATION

Eye contact: Irritant. May cause pain, redness, discomfort.

Skin contact: Irritant; may cause pain, redness, dermatitis.

Inhalation: Irritant; may cause pain and coughing.

maiation. Imaant, may cause pain and cougning.

Ingestion: Irritant; may cause pain or discomfort to mouth, throat

and stomach.

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: May cause allergic reaction upon repeated skin

exposure.

Other: None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

None known.

Not determined

Acute invertebrates toxicity: Acartia Tonsa LC50 (48h) = 237 mg/l

13. DISPOSAL CONSIDERATIONS

Product: Ship via permitted waste hauler to permitted

hazardous waste disposal facility for incineration

(preferred) or landfilling.

Container: Send empty bags to sanitary landfill. Render other

types of containers unuseable by puncturing or

crushing and sanitary landfill unless prohibited by local

regulations.

D800

Effective Date:

24-November-1999

USA EPA RCRA:

None.

14. TRANSPORT INFORMATION

ICC Tariff Classification

Compound, Gas or Oil Well Drilling

ICC Item Number:

138640

ICC Class:

50 LTL

35 TL

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:

*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.

Schumberger

50% -100% OF BASE

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D907

Effective Date:

24-November-1999

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

Identification of the substance or preparation:

CEMENT CLASS G D907

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

PORTLAND CEMENT; CAS 65997-15-1; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Gray

Odor:

Typical

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 2 Flammability 0 Reactivity 0

May cause allergic reaction upon repeated skin exposure. May cause eye irritation. May cause

respiratory tract irritation. May cause skin 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:

Remove contaminated clothes and shoes. Wash thoroughly with soap and water. Seek medical

thoroughly with soap and water. Seek medical

attention if irritation occurs.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

DO NOT induce vomiting. Give 2 glasses of milk (preferred) or water and seek medical attention at

once.

Notes:

None.

Effective Date:

24-November-1999

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not combustible.

Method:

Not applicable

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 2 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:

Keep material dry.

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 (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: Rubber

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:

Gray

Odor:

Typical

pH value:

in water 11-13

Boiling point:

Not applicable

Pour point:

Not applicable

Vapor pressure:

Not applicable

Relative density (specific gravity):

Approximately 3.0

Bulk Density (solids):

Not determined

DOWELL PRODUCT CODE: D907 Effective Date: 24-November-1999

Solubility in water:

Viscosity:

Miscible with water

Not applicable

Relative Vapor Density (air=1): Not applicable

Relative vapor Density (air=1): Not applicable
% Volatile: <1

Nature Alkaline

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: None known

Materials to avoid:

Acids

Hazardous Polymerization: Will not occur.

Dust explosion hazard (solids):

Special hazards:

No.

None.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

Eye contact: Irritant. May cause pain, redness, discomfort.

Skin contact: Irritant; may cause pain, redness, dermatitis.

Inhalation: Irritant; may cause pain and coughing.

Ingestion: Irritant; may cause pain or discomfort to mouth, throat

and stomach.

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: May cause allergic reaction upon repeated skin

exposure.

Other: None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

None known.

Not applicable

Fish Toxicity: Low toxicity to fish.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

D907

Effective Date:

24-November-1999

14. TRANSPORT INFORMATION

ICC Tariff Classification

ICC Item Number:

Cement 42130

ICC Class:

50 LTL

35 TL

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:

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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:

^{*}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.

50% -100% OFBASE

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MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:

D909

Effective Date:

24-November-1999

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

Identification of the substance or preparation:

CEMENT CLASS H D909

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

PORTLAND CEMENT; CAS 65997-15-1; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Powder

Color:

Gray

Odor:

Typical

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 2 Flammability 0 Reactivity 0

May cause allergic reaction upon repeated skin exposure. May cause eye irritation. May cause

respiratory tract irritation. May cause skin 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:

Remove contaminated clothes and shoes. Wash

thoroughly with soap and water. Seek medical

attention if irritation occurs.

Inhalation:

Remove to fresh air. Seek medical attention if irritation

persists or you feel unwell.

Swallowing:

DO NOT induce vomiting. Give 2 glasses of milk

(preferred) or water and seek medical attention at

once.

Notes:

None.

DOWELL PRODUCT CODE: D909 Effective Date: 24-November-1999

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information: Flash point:

None known.

Not combustible.

Method:

Not applicable

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 2 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:

Keep material dry.

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 (3M 8710).

Eve protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: Rubber

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:

Gray

Odor:

Typical

pH value:

in water 11-13

Boiling point:

Not applicable

Pour point:

Not applicable

Vapor pressure:

Not applicable

Relative density (specific gravity):

Approximately 3.0

Bulk Density (solids):

Not determined

DOWELL PRODUCT CODE: D909 Effective Date: 24-November-1999

Solubility in water: Miscible with water

Viscosity: Not applicable

Relative Vapor Density (air=1): Not applicable

% Volatile: <1

Nature Alkaline

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to avoid: None known

Materials to avoid: Acids

Hazardous Polymerization: Will not occur.

Dust explosion hazard (solids):

Special hazards:

Hazardous decomposition products:

No.

None.

11. TOXICOLOGICAL INFORMATION

Eye contact: Irritant. May cause pain, redness, discomfort. Skin contact: Irritant; may cause pain, redness, dermatitis.

Inhalation: Irritant; may cause pain and coughing.

Ingestion: Irritant; may cause pain or discomfort to mouth, throat

and stomach.

Carcinogenicity: Not listed by IARC, USA NTP, or USA OSHA.

Mutagenicity: Not known to cause heritable genetic damage.

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Teratogenicity: Not known to cause birth defects.

Target organs which may be affected: None known.

Sensitization: May cause allergic reaction upon repeated skin

exposure.

Other: None.

12. ECOLOGICAL INFORMATION

Information on product as a whole:

Main environmental hazards:

Degradability:

None known.

Not applicable

Fish Toxicity: Low toxicity to fish.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of by sanitary landfilling or other acceptable

method in accordance with 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

D909

Effective Date:

24-November-1999

14. TRANSPORT INFORMATION

ICC Tariff Classification

Cement

ICC Item Number:

42130

ICC Class:

50 LTL

35 TL

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:

*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.

Schlumberger

MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE: **\$001** Effective Date: 10-February-2000

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

Identification of the substance or preparation:

77% CALCIUM CHLORIDE S1

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 1-281-285-7873

2. COMPOSITION/INFORMATION ON INGREDIENTS

CALCIUM CHLORIDE; CAS 10043-52-4; 60-100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Form:

Granules

Color:

White

Odor:

None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions:

None.

Physical Hazard:

Dust

Main Health Hazards:

HMIS RATING: Health 2 Flammability 0 Reactivity 1

Harmful if swallowed. Causes eye irritation. May cause respiratory tract irritation. May cause skin

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: Remove contaminated clothes and shoes. Wash

thoroughly with soap and water. Seek medical

attention if irritation occurs.

Inhalation:

Remove to fresh air.

Swallowing:

If several grams are swallowed, induce vomiting with

ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred)

or water and consult physician.

Notes:

None.

S001

Effective Date:

10-February-2000

5. FIRE FIGHTING MEASURES

Extinguishing media:

None needed

Further Information:

None known.

Flash point:

Not combustible.

Method:

Not applicable

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 2 Flammability 0 Reactivity 1 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:

Keep material dry.

Packaging requirements:

Bag with moisture barrier.

Ventilation:

Provide ventilation to keep airborne concentrations

below exposure limits.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:

None normally needed. If dust or mist is generated

use NIOSH approved respirator with dust and mist

protection (3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: Rubber

Skin protection:

Clean, body-covering clothing. For spills and

emergencies, also wear boots and impervious suit.

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:

Granules

Color: Odor: White

pH value:

None

Boiling point:

Not determined Not applicable

Pour point:

. Tot applicable

Vapor pressure:

Not determined 0.13 kPa (68°F)

Relative density (specific gravity):

2.2 (68°F)

Bulk Density (solids):

800 kg/m3

S001

Effective Date:

10-February-2000

Solubility in water:

Soluble 68°F

Viscosity:

Not applicable Not applicable

% Volatile:

< 18

Nature

Salt

10. STABILITY AND REACTIVITY

Relative Vapor Density (air=1):

Stability:

Stable.

Conditions to avoid:

None known

Materials to avoid:

Aqueous solutions are mildly corrosive to metals.

Releases heat when mixed with water.

Hazardous Polymerization:

Dust explosion hazard (solids):

Will not occur. Not applicable.

Special hazards:

None.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

Eye contact:

Severe irritant, Causes pain and redness, Prolonged

or repeated contact may cause mild burn.

Skin contact:

Irritant; may cause pain, redness, dermatitis. LD50

(rabbits) > 5000 mg/kg.

Inhalation:

Irritant; may cause pain and coughing.

Ingestion:

Harmful if swallowed; large amounts may cause

illness. LD50 = 1100 mg/kg. Irritant; may cause pain

or discomfort to mouth, throat and stomach.

Carcinogenicity:

Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage.

Mutagenicity:

Not known to cause birth defects.

Teratogenicity:

None known.

Target organs which may be affected: 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.

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.

S001

Effective Date:

10-February-2000

14. TRANSPORT INFORMATION

ICC Tariff Classification

Compound, Gas or Oil Well Drilling

ICC Item Number:

138640

ICC Class:

50 LTL

35 TL

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:

None

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505



Form C-138
Revised March 17, 1999
Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

THE COLOR IN THE C	1 2.32
1. RCRA Exempt: Non-Exempt:	4. Generator J Phristway Corporation
Verbal Approval Received: Yes ☐ No ☒	5. Originating-Site: Thriftway-Refinery
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: TBA
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) West Hammond Road, Bloomfield	Project #02008-
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste capproved 	necessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	sport.
BRIEF DESCRIPTION OF MATERIAL:	•
Sludge and water at crude tank sumps.	
This stream was approved last year by Dave Cobrain, but never received. P waste determination, and waste status determination attached.	rior approval, CWS, analytical, letter for
	•
Estimated Volume 18 cy Known Volume (to be entered by the operator at the end of	f the haul)cy
SIGNATURE Handred R. Jackson TITLE: Environmental Waste Management Facility Authorized Agent	Administrative Assistant DATE: 03/06/03
TYPE OR PRINT NAME: <u>Landrea Jackson</u> TELEPHONE NO: <u>(505)</u> 632-0615	<u>5</u>
(This space for State Use) APPROVED BY: APPROVED BY: Guid Guid Guid TITLE: TITLE:	
APPROVED BY: TITLE:	DATE:
APPROVED BY: South Grant TITLE:	DATE:

District 1 - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Profict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

c, NM 87410 عتد

New Mexico

Energy Minerals and Natural Resources Departmented

Oil Conservation Division 2040 South Pacheco Street

MAR 0 4 2002 Environmental Bureau

Submit Original Plus 1 Copy to appropriate District Office

Form C-138

Originated 8/8/95

Rome I dickery

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

Oil Conservation Division
Env. JN: 02008-01B

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator THELETWAY Corp.
Verbal Approval Received: Yes No No	5. Originating Site THRIPTWAY REFINAL
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Environment
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Mapico
7. Location of Material (Street Address or ULSTR)	County Romo 5500 Bloom fraid Day
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance. B. All requests for approval to accept non-exempt wastes must be accepted accepted. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned.	mpanied by necessary chemical analysis to not origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Sludge & water at crade Truche Sun Jen jed to anta Fe Subjectient Approved Approved Basedon Basedon Dave cobvain's Dave e Her	FEB 2002
Estimated Volume 20 bbl cy Known Volume (to be entered by the ope	cy
SIGNATURE: Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE	DATE: 2-28-62 EPHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: Menty Jak TITLE: Environment TITLE: En	DATE: 6/25/02

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

District IV - (505) 827-7131

APPROVED BY:

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-13 Originated 8/8/9

> Submit Origina Plus 1 Cop to appropriate District Office

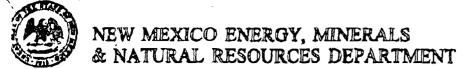
Env. JN: 62008

DATE:_

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator THRIFTWAY Corp.
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site ではRefruery
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Environment
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Marrico
7. Location of Material (Street Address or ULSTR)	County ROLD 5500 Bloom field Day
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accorded PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned to the constant of the constant of	npanied by necessary chemical analysis to of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Sludge Éwater at crade TAUIC Sum	
3	
Estimated Volume — 20 bbl cy Known Volume (to be entered by the opera	tor at the end of the haul) ————— cy
SIGNATURE: Warla The Brown TITLE: Landfarm Man	nager 2.20
Waste Management FacilityAuthorized Agent	PHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: TITLE:	DATE:

TITLE:

THEIRTWAY - TRUITS muys There wolffor, W/ TCLP.



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87416 (808) 334-8178 Pax (805)334-8170

GARY E. JOHNSON

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
1-14-61	Envirotech Soil Remediation Facility
to find Dr. Suite W	Landfarm #2
	Hilltop, New Mexico
	Location of the Waste (Street address &/or ULSTR):
3. Originating Sign (name):	Encation of the Averta language and acatul.
	•
Thirthway Blomfield of	Louis
The state of the s	7 ' '
Attach list of originating sites as appropriate	
4. Source and Description of Waste	·
Conde tank sumps	
mae Tare	,
1, TERRY Griffin	representative for:
(Print Name)	
BIOTECH REMEDIATION	do hereby centify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July,
1968, regulatory determination, the above described t	A0010 10: [CHECK MPP OPHIBLE CLASSIFICATION
EXEMPT oilfield waste NON-EXEM	PT cilfleld waste which is non-hazardous by characteristic
	by product identification
-	
and that nothing has been added to the exempt or non	exempt non-hazardous waste defined above.
P MOAI PMCAIDT	den le charle d'Inhards annon des les mels
For NON-EXEMPT waste the following documentate MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	Other person person.
Chain of Custody	
This waste is in compliance with Regulated Levels of N	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•
A A	
Name (Original Signature):	
De la lateral	land Silve
Title: - PARCH RE	marin
V ()	
Date: <u>2-27-02</u>	

0 1	en	minros	From	lever
O. 771.V	are 1	(11M. L.L.	Co.	
Dept.	`	***************************************	Phone #	
9x # /257	10	1.8	Fax#	

BioTech REMEDIATION

501 Airport Drive - Suite 104

Street or Park and the

Farmington, New Mexico B7401 Off: (505) 327-4965 Fax: (505) 564-3604

February 25, 2002

Morris Young Envirotech, Inc. 5796 U.S. Hwy 64-3014 Farmington, NM 87401

RE: Thriftway Bloomfield Refinery

Dear Morris:

Just a brief note to let you know that Giant's last active use of the tanks at the above-referenced facility was in December of 1998. To the best of my knowledge, the refinery began discontinuing operations in December 1990 and January 1991.

Thank you for your assistance. If you need any other information, please contact me at 505-327-4965.

Respectfully,

Project Administrator

Cc: File



February 22, 2002

Ms. Terry Griffin BioTech 710 East 20th Farmington, NM 87401

Phone: (505) 327-4965

Dear Ms. Griffin,

Enclosed are the analytical results for the sample collected from the location designated as "Hwy 550, NM". This is the water draw-off sumps at the Thriftway Refinery Crude Oil Tanks. One water sample was collected by Envirotech designated personnel on 2/14/02, and received by the Envirotech laboratory on 2/14/02 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 8919. The sample was assigned Laboratory No. 22041 (SM-2 & SM-1) for tracking purposes.

The sample was analyzed 2/19/02 through 2/20/02 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/el

Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/biotech.wpd



SUSPECTED HAZARDOUS WASTE ANALYSIS

Thriftway Project #: 02008-001 Client: Sample ID: SM-2 + SM-1 Date Reported: 02-19-02 22041 Date Sampled: Lab ID#: 02-14-02 Date Received: Sample Matrix: Water 02-14-02 02-15-02 Preservative: Cool Date Analyzed: Condition: Cool and Intact Chain of Custody: 8919

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 6.84

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

(i.e. Sample ignition upon direct contact with flame or flash point < 60 $^{\circ}$ 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:

Hwy 550, NM.

Misten of Wallers
Analyst

Review



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

	TI	D	00000 004
Client:	Thriftway	Project #:	02008-001
Sample ID:	SM-2 + SM-1	Date Reported:	02-19-02
Laboratory Number:	22041	Date Sampled:	02-14-02
Chain of Custody:	8919	Date Received:	02-14-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	02-19-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0081	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0231	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachioroethene	, 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
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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:

Hwy 550, NM.

Analyst C. Cephran



EPA METHOD 8040 PHENOLS

Client:	Thriftway	Project #:	02008-001
Sample ID:	SM-2 + SM-1	Date Reported:	02-20-02
Laboratory Number:	22041	Date Sampled:	02-14-02
Chain of Custody:	8919	Date Received:	02-14-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	02-20-02
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:

Hwy 550, NM.

Analyst

Review Libeters



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

Client:	Thriftway	Project #:	02008-001
Sample ID:	SM-2 + SM-1	Date Reported:	02-20-02
Laboratory Number:	22041	Date Sampled:	02-14-02
Chain of Custody:	8919	Date Received:	02-14-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	02-20-02
Condition:	Cool and Intact	Analysis Requested:	TCLP

		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(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:

Hwy 550, NM.

Analyst L. Office

(Review Malters



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Thriftway	Project #:	02008-001
Sample ID:	SM-2 + SM-1	Date Reported:	02-19-02
Laboratory Number:	22041	Date Sampled:	02-14-02
Chain of Custody:	8919	Date Received:	02-14-02
Sample Matrix:	Water	Date Analyzed:	02-19-02
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	0.301	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.091	0.001	5.0
Lead	0.107	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 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:

Hwy 550, NM.

nalyst

Perion Doller



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-19-02
Laboratory Number:	02-19-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-19-02
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(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	
	Fluorobenzene	100%	
	1,4-difluorobenzene	100%	
	4-bromochlorobenzene	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 22037 - 22039 and 22041.

Deu E. Oglina

Review Moeters



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

Oli a - ta	QA/QC	Drainat #	NI/A
Client:	QAQC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-19-02
Laboratory Number:	02-14-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-19-02
Condition:	N/A	Date Extracted:	02-14-02
		Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(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
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	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 22037 - 22039 and 22041.

Dec C. africa

Review Maller



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-19-02
Laboratory Number:	22037	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-19-02
Condition:	N/A	Date Extracted:	02-14-02

		Duplicate		,
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0087	0.0087	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0018	0.0018	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 22037 - 22039 and 22041.

Analyst

Christin of Walters
Review



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

Client: QA/QC Project #: N/A Sample ID: Matrix Spike Date Reported: 02-19-02 Date Sampled: Laboratory Number: 22037 N/A **TCLP Extract** Date Received: Sample Matrix: N/A Analysis Requested: **TCLP** Date Analyzed: 02-19-02 Condition: N/A Date Extracted: 02-14-02

Sample	Spike	Spiked Sample	Det.		SW-846 % Rec.
				_	Accept. Range
, ,				<u></u>	
ND	0.050	0.0495	0.0001	99%	28-163
ND	0.050	0.0494	0.0001	99%	43-143
0.0087	0.050	0.0577	0.0001	98%	47-132
ND	0.050	0.0500	0.0001	100%	49-133
ND	0.050	0.0490	0.0001	98%	43-143
0.0018	0.050	0.0513	0.0001	99%	39-150
ND	0.050	0.0490	0.0001	98%	51-147
ND	0.050	0.0495	0.0003	99%	35-146
ND	0.050	0.0495	0.0005	99%	26-162
ND	0.050	0.0495	0.0003	99%	38-150
ND	0.050	0.0495	0.0002	99%	42-143
	Result (mg/L) ND ND 0.0087 ND ND 0.0018 ND ND ND	Result (mg/L) ND 0.050 ND 0.050	Sample Spike Sample Result Added Result (mg/L) (mg/L) (mg/L) ND 0.050 0.0495 ND 0.050 0.0577 ND 0.050 0.0500 ND 0.050 0.0490 0.0018 0.050 0.0490 ND 0.050 0.0490 ND 0.050 0.0495 ND 0.050 0.0495 ND 0.050 0.0495 ND 0.050 0.0495 ND 0.050 0.0495	Sample Spike Sample Det. Result Added Result Limit (mg/L) (mg/L) (mg/L) (mg/L) ND 0.050 0.0495 0.0001 ND 0.050 0.0494 0.0001 ND 0.050 0.0577 0.0001 ND 0.050 0.0500 0.0001 ND 0.050 0.0490 0.0001 ND 0.050 0.0490 0.0001 ND 0.050 0.0495 0.0003 ND 0.050 0.0495 0.0005 ND 0.050 0.0495 0.0005 ND 0.050 0.0495 0.0005 ND 0.050 0.0495 0.0003	Sample Result (mg/L) Spike Added Result (mg/L) Det. (mg/L) Limit Percent (mg/L) Percent (mg/L) ND 0.050 0.0495 0.0001 99% (mg/L) ND 0.050 0.0494 0.0001 99% (mg/L) 0.0087 0.050 0.0577 0.0001 98% (mg/L) ND 0.050 0.0500 0.0001 100% (mg/L) ND 0.050 0.0500 0.0001 98% (mg/L) ND 0.050 0.0490 0.0001 98% (mg/L) ND 0.050 0.0490 0.0001 98% (mg/L) ND 0.050 0.0495 0.0003 99% (mg/L) ND 0.050 0.0495 0.0005 99% (mg/L) ND 0.050 0.0495 0.0003 99% (mg/L)

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 22037 - 22039 and 22041.

Den C. Cylina

Mistin M Walters
Review



EPA METHOD 8040 PHENOLS

Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-20-02
Laboratory Number:	02-20-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-20-02
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory	
	Concentration	Limit	Limit	
Parameter	(mg/L)	(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 22037 - 22039 and 22041.

Analyst C. Cofun

(hristen m Walters
Review



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-20-02
Laboratory Number:	02-14-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	02-20-02
		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 22037 - 22039 and 22041.

Analyst C. Cyline



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-20-02
Laboratory Number:	22037	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-14-02
Condition:	Cool & Intact	Date Analyzed:	02-20-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference

8040 Compounds

30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 22037 - 22039 and 22041.

Analyst . Commerce . C



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-20-02
Laboratory Number:	02-20-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-20-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

100%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for samples 22037 - 22039 and 22041.



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-20-02
Laboratory Number:	02-14-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-14-02
Condition:	Cool and Intact	Date Analyzed:	02-20-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
•		

2-fluorobiphenyl

100%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for samples 22037 - 22039 and 22041.

Analyst

Review Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-20-02
Laboratory Number:	22037	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-14-02
Condition:	N/A	Date Analyzed:	02-20-02
		Analysis Requested:	TCLP

	Sample	Duplicate		Det.
	Result	Result	Percent	Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.102	0.101	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.034	0.034	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

8090 Compounds

30%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for samples 22037 - 22039 and 22041.

Den P. Office

Review Malters



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

Client:	QA/QC	Project #:	N/A
Sample ID:	02-19-TCM QA/QC	Date Reported:	02-19-02
Laboratory Number:	22037	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-19-02
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.046	0.046	0.0%	0% - 30%
Barium	ND	ND	0.001	0.267	0.265	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.039	0.039	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.149	0.147	1.3%	0% - 30%
Lead	ND	ND	0.001	0.283	0.280	1.1%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.024	0.024	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sampl	e Spiked Sample		Acceptance Range
Arsenic	0.500	0.046	0.545	99.8%	80% - 120%
Barium	0.500	0.267	0.763	99.5%	80% - 120%
Cadmium	0.500	0.039	0.537	99.6%	80% - 120%
Chromium	0.500	0.149	0.647	99.7%	80% - 120%
Lead	0.500	0.283	0.781	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.024	0.523	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 22037 - 22039 and 22041.

Analyst

Review

08919

CHAIN OF CUSTODY RECORD

May 3, 2002

New Mexico Environment Department Hazardous Waste Bureau Attn: Dave Cobrain, Waster Resource Specialist 2905 Rodeo Park Drive East, Bldg 1 Santa Fe, New Mexico 87505

505-428-2541

Fax 505-428-2567

Re:

Revised letter for waste determination for the former Thriftway Refinery near Bloomfield,

New Mexico

Dear Mr. Cobrain:

Biotech Remediation has provided a revised letter describing the work they have proposed at the former Thriftway Refinery located near Bloomfield, New Mexico. The letter is attached to this correspondence. Please note that the scope of work has been modified to include cleanup of spills and leaks around several tanks located at the east end of the facility.

If you have further questions regarding this project or if we can be of further service please feel free to contact us at 505-632-0615.

Sincerely,

Envirotech Inc.

Halowy Brown

Harlan M. Brown

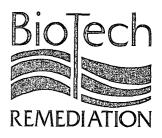
Geologist / Hydrogeologist

New Mexico Certified Scientist #083

CC:

Bitotech Remediation; Ms. Terry Griffin, 501 Airport Drive Suite 504, Farmington, NM 87401 NMOCD, Martyne Kieling, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505

RECEIVED APR 1 1 2002



501 Airport Drive - Suite 104

Farmington, New Mexico 87401 Off: (505) 327-4965 Fax: (505) 564-3604

April 10, 2002

Morris Young Envirotech Inc. 5796 US Hwy 64 Farmington, New Mexico 87401

Re: Thriftway Bloomfield Refinery

Dear Morris:

Thriftway is planning to clean several areas at the Bloomfield Refinery for inspection per the current Discharge Renewal Plan. In order to complete the inspection, the sumps and stained soils around several tanks within the tank farm and two lined lagoons will need to be cleaned and the sludge will need to be disposed of in an appropriate manner. It is our understanding that characterization of the waste streams for disposal is dependent on when the storage areas were last used. A Site Plan of the tanks and lagoon liners is attached.

There are several crude oil storage tanks located at the east side of the refinery. A couple of the tanks have concrete sumps (6' x 10' x 5') adjacent to them that were used to catch condensed water drawn off the bottom of the tanks, the other tanks had valves which leaked and stained soil needs to be removed. All tanks and associated sumps were last used when they were rented to Giant Industries. The tanks and sumps have not been used since December 1998.

We also need to clean and inspect the lined evaporation lagoons located west of the refinery process unit. To the best of our knowledge the refinery ceased refining operations in December 1990. Process water from the plant has not been added to the evaporation lagoons since refinery operations stopped.

Morris Young April 10, 2002 Page 2

Thank you for your assistance. If you need further information, please contact me at 505-327-4965.

Respectfully,

Terry Griffin

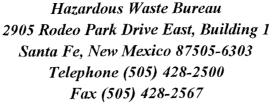
Project Administrator

hmb/TG

State of New Mexico ENVIRONMENT DEPARTMENT

GARY E. JOHNSON

GOVERNOR



www.nmenv.state.nm.us





CERTIFIED MAIL RETURN RECEIPT REQUESTED

May 31, 2002

EnviroTech Inc. 5796 U.S. Highway 64 Farmington, New Mexico 87401

SUBJECT: WASTE STATUS DETERMINATION

THRIFTWAY BLOOMFIELD REFINERY SAN JUAN COUNTY, NEW MEXICO

TR-02-001 (NMOCD DISCHARGE PLAN NUMBER GW-055)

Attention: Mr. Harlan Brown

Mr. Morris Young

The New Mexico Environment Department (NMED) Hazardous Waste Bureau has reviewed the information regarding the disposal history of the surface impoundments and crude oil storage tank sump waste provided in your letter dated May 3, 2002. Based on the information provided in the attached letter from BioTech Remediation, dated April 10, 2002, the residual sludge was deposited in the surface impoundments prior to the May 1991 listing of petroleum refinery primary and secondary oil/water/solids separation sludge and is not considered to be listed as F037 and F038 waste under 20.4.1.200 NMAC (incorporating 40 CFR 261.31). In addition, information provided by you during our February 14, 2002 site meeting at the refinery facility indicated that the wastewater was not treated in an API separator prior to discharge to the surface impoundments; therefore, the sludge also does not contain K051 waste under 20.4.1.200 NMAC (incorporating 40 CFR 261.32).

The BioTech Remediation letter also states that the crude oil tanks and sumps have not been used since December 1998. Based on the information provided in the letter, the sludge in the sumps was deposited prior to the February 1999 listing of crude oil storage tank sediment from refining operations and is not considered to be K169 listed waste under 20.4.1.200 NMAC (incorporating 40 CFR 261.32). The waste from the sumps and surface impoundments must be handled as hazardous waste if chemical analysis indicates any characteristic of hazardous waste as defined in 20.4.1.200 NMAC (incorporating 40 CFR 261 Subpart D). In addition, waste disposal activities

EnviroTech, Inc. May 31, 2002 Page 2

must comply with all New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division requirements for waste handling, treatment and disposal.

Please call this office at (505) 428-2553 if you have questions regarding this determination or if conditions change that might affect the status of the waste.

Sincerely,

Dave Cobrain, R.P.G.

Geologist

Permits Management Program

Hazardous Waste Bureau

DWC

cc: James Bearzi, HWB

John Kieling, HWB

Debby Brinkerhoff, HWB

Martyne Kieling, OCD

Terry Griffin, BioTech Remediation

Pam Allen, HWB

Tracking: Blue File, 2002, Waste Determination, Thriftway Bloomfield Refinery.

Kieling, Martyne

From:

Lany Jackson [ljackson@envirotech-inc.com]

Sent:

Friday, January 31, 2003 8:48 AM

To: Cc: Kieling, Martyne Denny Foust

Subject:

Re: C-138

Martyne,

I will be dropping off the C-138, CWS, MSDS, and our lab's analytical for the Halliburton solution to Denny at some point this afternoon. I believe that we actually received the material yesterday based on your verbal approval on the 23rd. You should be seeing the paperwork soon.

```
Thanks,
Lany
```

```
---- Original Message -----
From: "Kieling, Martyne" < MKieling@state.nm.us>
To: <ljackson@envirotech-inc.com>; "Foust, Denny" <DFOUST@state.nm.us>
Sent: Thursday, January 30, 2003 4:24 PM
Subject: C-138
> Halliburton -main yard - JN 92132
> BJ Services - Sludge Pit - JN 95026
   <<013003-1.tif>> <<013003-2.tif>>
> Landrea,
> Do you know what has happened to this Waste
> stream? I returned a call from Morris on this one on 1-23-03.
> The load of SodiumSilicate/HCL was labeled
> as non-exempt by Halliburton. There is approximately 16 bbls of the waste.
> The load has been neutralized to a pH of 7. Envirotech is requesting MSDS
> and is already running a TCLP analysis on the mix. Keep your eyes open for
> C-138 on this waste steam.
>
> Martyne J. Kieling
> Martyne J. Kieling
> Environmental Geologist
```

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

District IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

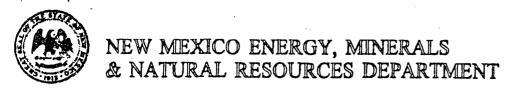
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

98059-025

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	<u> </u>
1. RCRA Exempt: Non-Exempt:	4. Generator Comprission
Verbal Approval Received: Yes 🔲 No 💢	5. Originating Site Munoz出 1 a
2. Management Facility Destination Facility LF#>	6. Transporter Envirotech
3. Address of Facility Operator Jarminaton, NM 87401	8. State NM
7. Location of Material (Street Address or ULSTR) "D" Sec11, T30n	
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accommended acceptance. B. All requests for approval to accept non-exempt wastes must be accommended acceptance. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. 	empanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	i for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Compressor of new oil contaminated soil skid near vadiator.	from right side of
Skid near vadiator.	00 21 22 22
CWS+MSDS attached.	687324E
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Morning TITLE: POLSIAL	Int DATE: 5/22/02
Waste Mahagement Facility Authorized Agent TYPE OR PRINT NAME: Morris D. Toung TEL	EPHONE NO. (505) 1032-01015
(This space for State Use)	
APPROVED BY: Minty John TITLE: Environ	MATE: 2/18/03 MATE: 2/21/03



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-6170 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

·	
1. Generator Name and Address:	2. Destination Name:
Universal Compression	Envirotech Soil Remediation Facility
3440 Morningstar Drive	Landfarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Musoz # / A	"D"SEC 11
locabo 5	TOWN 030N
	RANGE ODEW
Attach list of originating sites as appropriate	
4. Source and Description of Waste	ay tank sothet Contomiated soil
Compressor of the state of	
Risht side of skid Near Radiator	
1, Ph. 1 Nag-(Print Name)	representative for:
(Print Name)	representative (0).
	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
EXEMPT oilfield waste NON-EXEM analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
~	
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached Johack appropriate items).
X MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	Other (description).
Chain of Custody	
•	laturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature):	
Title: Same	
Title: Symusor	
Title: <u>Sympton</u> Date: <u>8-28-02</u>	





MOTC0070

Revised 26-NOV-1998

Printed 8-JAN-1999

EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade

30, 40, 15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information

1-281-293-5550

Transport Emergency Medical Emergency

CHEMTREC 1-800-424-9300

1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

omponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	-
If oil mist is generated, exposure li	mits apply.	

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

FIRST AID MEASURES(Continued)

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 202 C (396 F) (SAE 30)

Method

204 C (399 F) (SAE 40) 193 C (379 F) (SAE 15W-40) Pensky-Martens Closed Cup - PMCC.

Flash Point

250 C (482 F) (SAE 30) 257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)

Method

Cleveland Open Cup - COC.

Flash point(s) given above are typical values.

Autoignition

Not Available

NFPA Classification

Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

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.

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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

+4/3m/2555

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply. PEL (OSHA) 5 mg/m3, 8 Hr. TWA

TLV (ACGIH) 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

AEL * (DuPont)

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point 700-1100 F (371-593 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Evaporation Rate Nil

Solubility in Water Insoluble

Odor Petroleum hydrocarbon (mild)

Form Liquid

Color Amber to Brown Specific Gravity 0.88 @ 60 F (16 C)

Density 7.34-7.36 lb/gal @ 60 F (16 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

REGULATORY INFORMATION(Continued)

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

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

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

Reportable Quantity

Petroleum Hydrocarbons.

Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating
Health 0
Flammability 1
Reactivity 0

NPCA-HMIS Rating
Health 1
Flammability 1
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 Coordinator Address: Conoco Inc. PO Box 2197

: Houston, TX 77252 Telephone : 1-281-293-5550

Indicates updated section.

End of MSDS

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

District IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

universal

98059-027

1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes No 🔽	5. Originating Site Sudwick
2. Management Facility Destination—Environment Soil Rimediation—	6. Transporter Envirotect
3. Address of Facility Operator 5796 US HDy 64	8. State NM
7. Location of Material (Street Address or ULSTR) "F" Such T2911,	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. 	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	for transport.
Compressor oil Contaminated soil resultabing the plug from a clong run of CWS4 MSDS attached.	lting from someone brum.
	8695 TE
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) ————— cy
SIGNATURE: Waste Management Facility Authorized Agent TITLE: PLANSAGE	•
TYPE OR PRINT NAME: Morris D. Young. TEL	EPHONE NO. (505) 632-0615
(This space for State Use)	
APPROVED BY: Deny Fenst TITLE: Environ	1 Engr DATE: 2/18/03
APPROVED BY: Montan 95/1/2. TITLE: Environm	who Gadosist DATE: 2/21/03:
· · · · · · · · · · · · · · · · · · ·	



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:	2. Destination Name:
Universal Compression	Envirotech Soil Remediation Facility
3440 Morningstar Drive	Landfarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
LUDWICK LE-18M	"F" Section: 06
	township: 29 W
	•
Association of minimaking pitch on a companies	RAV ge: 10 W
Attach list of originating sites as appropriate 4. Source and Description of Waste	
Sounce: long Kun DRUM. someson	y took Plug out.
Description: Elman 3000 15-40	>.
	·
`	
L	
0.	
I, BRUCL BRYAN (Print Name)	representative for:
	A Lord West
m versal Compression	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
1000, regardier, distance, die dasse dasse	
EXEMPT oilfield waste NON-EXEM	MPT oilfield waste which is non-hazardous by characteristic
` analysis or	by product identification
and that mathing has been added to the exempt or no	n-evernt reg-hazardous waste defined above
and that nothing has been added to the exempt or no	n-exempt non-nazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
X MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	·
Name (Original Signature):	yan_
Title: SUPERVISOR,	
Date: 8-27-02	





MOTC0070

Revised 26-NOV-1998

Printed 8-JAN-1999

EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade

30, 40, 15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc. P.O. Box 2197 Houston, TX 77252

PHONE NUMBERS

Product Information

1-281-293-5550

Transport Emergency

CHEMTREC 1-800-424-9300

Medical Emergency

1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

mponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	
If oil mist is generated, exposure 1	imits apply.	

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

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.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

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

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

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

FIRST AID MEASURES(Continued)

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 202 C (396 F) (SAE 30)

204 C (399 F) (SAE 40)

193 C (379 F) (SAE 15W-40)

Method Pensky-Martens Closed Cup - PMCC. Flash Point 250 C (482 F) (SAE 30)

257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)

Method Cleveland Open Cup - COC.

Flash point(s) given above are typical values.

Autoignition Not Available

NFPA Classification Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

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.

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, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Mayranna i

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

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. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply. PEL (OSHA) 5 mg/m3, 8 Hr. TWA

TLV (ACGIH) 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

AEL * (DuPont)

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point 700-1100 F (371-593 C)

Vapor Pressure Nil

Vapor Density >1 (Air = 1)

% Volatiles Nil Evaporation Rate Nil

Solubility in Water Insoluble

Odor Petroleum hydrocarbon (mild)

Form Liquid

Color Amber to Brown Specific Gravity 0.88 @ 60 F (16 C)

Density 7.34-7.36 lb/gal @ 60 F (16 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DÉTERMINATION

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.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313

REGULATORY INFORMATION(Continued)

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

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient

Petroleum Hydrocarbons.

Reportable Quantity

Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP`65"

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS

Reactivity

NFPA Rating
Health 0
Flammability 1
Reactivity 0

NPCA-HMIS Rating
Health 1
Flammability 1

Personal Protection rating to be supplied by user depending on use conditions.

0

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 Coordinator Address : Conoco Inc. > PO Box 2197

Telephone

: Houston, TX 77252 : 1-281-293-5550

Indicates updated section.

End of MSDS

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

District IV - (505) 827-7131

c, NM 87410 مد..د

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

020+2-00

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	Mark West. 4. Generator Hud 2002 bon D
Verbal Approval Received: Yes 🔲 No 💢	5. Originating Site Janacio CDP
2. Management Facility Destination Jacility, LF#2	6. Transporter Various
3. Address of Facility Operator 579% US Hwyley Am 87401	8. State (0-7nm
7. Location of Material (Street Address or ULSTR) 5W/16, Sec 34, 72	eta County
9. <u>Circle One</u> :	
 All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted accep	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	•
Sube oil contaminated soil from gas con	presson.
Sube oil contaminated soil from gas con Cw3 & analysis attached.	ON CONTROL ON BUILDING ON BUIL
Estimated Volume cy Known Volume (to be entered by the open	
SIGNATURE: Morris D. Jourg TITLE: Preside TYPE OR PRINT NAME: Morris D. Jourg TEL	DATE: 7/8/02 EPHONE NO. (505) 632-0615
APPROVED BY: Mutha Osh - TITLE: Environment	0/Engr DATE: 2/18/03

11/15/02 02:45pm P. 00Z p.2

Forerunner Corp Durango Jun 24 02 08:22p Fore

(978) 375-7770

:5056321665



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

MIL CONSERVATION DIVISION ATTEC DISTRICT DEFICE
TOOR RIO BRAZOS ADAD
ATTEC, NEW MEXICO BYATO
ATTEC, NEW MEXICO BYATO

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name: Environment Soil Remediation Facility
Markwest Hydrocar bons Inc	Landfarm #2
, ·	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Ignacio CDP compressor Stat	ion SW/NE Sec. 34, T33N, R-1W
Attack list of originating sites as appropriets	Laplata Co. Colo.
4. Source and Description of Waste	
from gas compressor	
1 2 Compressor	
1. Rod Heaston (Fore Runner	Corp.) representative for:
Mark West Hydro carpon In	c. do hereby certify that,
according to the Resource Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's July.
1988, regulatory determination, the above described	Waste is: (Check uppropries description)
	IPT oilfield weste which is non-hazerdous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hezardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tion is attached (check appropriate items):Other (description):
X Chain of Custody	
This waste is in compliance with Regulated Lavels of I to 20 NMAC 3.1 subpart 1403,C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): Hoshy Heas	to
Title: Construction Coordinato	
Date: 11-15-02	and the distribution of the control

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	ForeRunner Corp.	Project #:	02072-001
Sample ID:	Lube Oil Contaminated	Date Reported:	06-26-02
Laboratory Number:	23143	Date Sampled:	06-24-02
Chain of Custody:	10027	Date Received:	06-24-02
Sample Matrix:	Soil	Date Analyzed:	06-26-02
Preservative:	Cool	Date Digested:	06-26-02
Condition:	Cool & Intact	Analysis Needed:	Total RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic ·	0.167	0.001	5.0
Barium	21.2	0.001	100
Cadmium	0.163	0.001	1.0
Chromium	3.35	0.001	5.0
Lead	2.70	0.001	5.0
Mercury	ND T	0.001	0.2
Selenium	0.092	0.001	1.0
Silver	0.006	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Mark West Hydrocarbon Corp.

Analyst

/ Mislin W) Wolten
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:	06-26-TM QA/QC	Date Reported:	06-26-02
Laboratory Number:	23143	Date Sampled: .	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	06-26-02
Condition:	N/A	Date Digested:	06-26-02

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.167	0.164	1.8%	0% - 30%
Barium	ND	ND	0.001	21.2	21.0	0.9%	0% - 30%
Cadmium	ND	ND	0.001	0.163	0.166	1.8%	0% - 30%
Chromium	ND	ND	0.001	3.35	3.34	0.3%	0% - 30%
Lead	ND	ND	0.001	2.70	2.67	1.1%	0% - 30%
Mercury	ND -	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.092	0.090	2.2%	0% - 30%
Silver	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample:	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.167	0.662	99.3%	80% - 120%
Barium	0.500	21.2	21.6	99.5%	80% - 120%
Cadmium	0.500	0.163	0.660	99.5%	80% - 120%
Chromium	0.500	3.35	3.80	98.7%	80% - 120%
Lead	0.500	2.70	3.16	98.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.092	0.589	99.5%	80% - 120%
Silver	0.500	0.006	0.505	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 23143, 23148.

Analyst

CHAIN OF CUSTODY RECORD

N/A 00,01/20/20/ Remarks Sample Receipt Date Cool - Ice/Blue Ice Received Intact **ANALYSIS / PARAMETERS** Received by: (Signature) ENVIROTECH INC. Received by: (Signature) Received by: (Signature) Containers July Farmington, New Mexico 87401 5796 U.S. Highway 64 (505) 632-0615 No. of Time //6 00 Sample Matrix 02072-001 Date 6-24-02 Project Location Lab Number Client No. Sample Libso oil Contaminated 6.24.02 15:00 Client / Project Name
Mark West Ayelocarbor Coy Sample Fare Runner Carp Relinquished by: (Signature) 🖊 Refinquished by: (Signature) Relinquished by: (Signature) Sample No./

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

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

01038-006

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	6 Generator Systems Inc.
Verbal Approval Received: Yes 🔲 No 💢	5. Originating Site 32-8#229
2. Management Facility Destination Facility LF # >	6. Transporter Paul + Sono
3. Address of Facility Operator 5796 US Holy 64	8. State NOW MONICO
7. Location of Material (Street Address or ULSTR) 1999 FSL, 900 FWL	mom
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted ac	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	d for transport.
Oil contaminated soil from cleak been removed. Discovered during Cleanup. CWS of Trace metals atta	TO COLOR TO SERVICE SE
Estimated Volume cy Known Volume (to be entered by the open	
SIGNATURE: Waste Mahagement Facility Authorized Agent TITLE: RAISIAIN	H DATE: 10/8/02
\sim \sim \sim \sim	EPHONE NO. (505) 632-0615
(This space for State Use)	
APPROVED BY: Denny Tous TITLE: Enviro) APPROVED BY: TITLE: Creolo APPROVED BY: TITLE: Creolo	m to Grday13 / 2/21/03

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:	2. Destination Name: Envirotech Soil Remediation Facility			
COMPRESSOR SYSTEMS INC.	Landfarm #2			
FARMENGTON N.M 8740/	Hilltop, New Mexico			
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):			
32-8 # 229 1999 856 + 900 1	EWL SECT 20 T-32-N, R-8-W NMPM			
	0 1 20 1 32 10 , K 8 00 10 111 111			
	-			
Attach list of originating sites as appropriate				
4. Source and Description of Waste				
OZL CEAK ON UNZT THAT IS NO LO	NGER ON LOCATION. FINAL LOCATION			
CLEAN UP.				
A second				
	·			
	•			
. 11 1 0-1				
I, Phaceal RAY (Print Name)	representative for:			
COMPRESSOR SYSTEMS IN	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 posting has been added to the evenut of not	a everyor non-hazardous waste defined above			
and that nothing has been added to the exempt or nor	1-exempt non-nazaroods waste defined above.			
For NON-EXEMPT waste the following documentar	tion is attached Icheck appropriate items):			
★ MSDS Information	Other (description):			
RCRA Hazardous Waste Analysis	other recourptions.			
Chain of Custody				
This waste is in compliance with Regulated Levels of M	laturally Occurring Radioactive Material (NORM) pursuant			
to 20 NMAC 3.1 subpart 1403.C and D.				
11 11 1				
Name (Original Signature):				
Title: LEAD SERVACE TECH				
·				
Date: 10/8/02				



TRACE METAL ANALYSIS

Client:	CSI	Project #:	01038-006
Sample ID:	Grab	Date Reported:	10-10-02
Laboratory Number:	23981	Date Sampled:	10-08-02
Chain of Custody:	10324	Date Received:	10-08-02
Sample Matrix:	Soil	Date Analyzed:	10-10-02
Preservative:	Cool	Date Digested:	10-09-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)	
Arsenic	0.010	0.001	5.0	
Barium	2.18	0.001	100	
Cadmium	ND	0.001	1.0	
Chromium	ND	0.001	5.0	
Lead	0.003	0.001	5.0	
Mercury	ND	0.001	0.2	
Selenium	0.004	0.001	1.0	
Silver	ND	0.001	5.0	

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

S.J. 32-8 #229.

Rev



TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

					-			
Client:		QA/QC		Project #:			N/A	
Sample ID:		10-10-TM	QA/QC	Date Repor	Date Reported:		10-10-02	
Laboratory Number:	•	23980		Date Samp	Date Sampled:		N/A	
Sample Matrix:		Soil		Date Recei	ved:		N/A	
Analysis Requested:		Total RCR	A Metals	Date Analyz	zed:	10-10-02		
Condition:		N/A		Date Digest	ted:		10-09-02	
Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detect Limi		Duplicate	% Diff.	Acceptance Range	
Arsenic	ND	ND	0.001	0.012	0.012	0.0%	0% - 30%	
Barium	ND	ND	0.001	1.91	1.90	0.5%	0% - 30%	
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%	
Lead	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%	
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Selenium	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%	
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Spike		Spike	Samp	le Spiked	Percent		Acceptance	
Conc. (mg/Kg)		Added		Sample	Recovery		Range	
				0.544	00.00/			
Arsenic		0.500	0.012	0.511	99.8%		80% - 120%	
Barium		0.500	1.91	2.40	99.6%		80% - 120%	
Cadmium		0.500	ND	0.498	99.6%	*	80% - 120%	
Chromium		0.500	0.001	0.500	99.8%		80% - 120%	
Lead		0.500	0.002	0.501	99.8%		80% - 120%	
Mercury		0.050	ND	0.050	100.0%		80% - 120%	
Selenium		0.500	0.007	0.506	99.8%		80% - 120%	
Silver		0.500	ND	0.499	99.8%		80% - 120%	

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 23980 - 23981.

Analyst

Review

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location SJ. 32-8 #	1 229 # 229	ANALY	ANALYSIS / PARAMETERS		•
Sampler:	Client No.	0(03B-00C	ainers		Remarks	
rple No./ Sample Iffication Date	Sample Lab Number Time	Sample Matrix				
Graff 10.8.02 14:50	186 8 3981	Soil				
				:		
Relinquished by: (Signature)		Date Time Rece	Received by: (\$/gnature)		19 Nate Til	Time 15:4 \$
Relinquished by: (Signature)		Reco	Received by: (Signature)			
Relinquished by: (Signature)		Нес	Received by: (Signature)			
		ENVIROTE	VIROTECH INC.	Sam	Sample Receipt	
		A CONTROL OF THE PROPERTY OF T			Z >	N/A
		5796 U.S. Highway 64 Farmington, New Mexico 87401	ghway 64 Mexico 87401	Received Intact	act /	
	-	(505) 632-0615	-0615	Cool - Ice/Blue Ice) e lce	
			,			

District I - (505) 393-6161 P. O. Box 1940 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV - (505) 827-7131

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 4/18/95

> Submit Original Plus 1 Copy to appropriate District Office

98059-030

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE			
1. RCRA Exempt: Non-Exempt:	4. Generator Universal			
Verbal Approval Received: Yes ☑ Vision ☐	5. Originating Site mallon oul			
2. Management Facility Destination Jacility J. ## 2	6. Transporter Envirotech			
3. Address of Facility Operator 5796 US How 64	8. State New Mexico			
7. Location of Material (Street Address or ULSTR) 5/2 miles North				
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: Motor Oil from Compression spilled at Line break. Metals analysis attached.				
0				

Estimated Volume 3-5 cy Known Volume (to be entered by the operator at the end of the haul) ————————————————————————————————————
SIGNATURE: Management Facility Authorized Agent TYPE OR PRINT NAME: Land Vea Jackson Telephone No. 505-632-0615
APPROVED BY: Marty Front TITLE: Environmental Goldens DATE: 2/21/03 APPROVED BY: Martyn My TITLE: Environmental Goldens DATE: 2/21/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 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 3440 Morningstor Drive Farmington Nm 87407	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Mailan Anine Plant T 30N Raye A 3 W Sec. & Riv Arriba Attach list of originating sites as appropriate 4. Source and Description of Waste Engine Oil & bravel urvinul whit # 1111000	Location of the Waste (Street address &/or ULSTR):
1. Steve Walch	representative for:
1988, regulatory determination, the above described	representative for: do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic
	by product identification
For NON-EXEMPT waste the following documentary MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	laturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	
Title: Field Mechanic	
Date: 12-19-02	



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	Universal Compressor Unit #111109 24465 10477 TCLP Extract Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Needed:	98059-036 12-22-02 12-19-02 12-19-02 12-22-02 12-20-02 TCLP metals
Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	0.021 2.41 0.002 0.011 0.009 ND 0.006 ND	0.001 0.001 0.001 0.001 0.001 0.001 0.001	5.0 100 1.0 5.0 5.0 0.2 1.0 5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Mallon Oil Comp.

Analyst

Review Moller



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

Client:	QA/QC	Project #:	N/A
Sample ID:	12-22-TCM QA/QC	Date Reported:	12-22-02
Laboratory Number:	24465	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	12-22-02
Condition:	N/A	Date Extracted:	12-20-02

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.021	0.021	0.0%	0% - 30%
Barium	ND	ND	0.001	2.41	2.39	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.011	0.011	0.0%	0% - 30%
Lead	ND	ND	0.001	0.009	0.009	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Spike		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/L)		Added		Sample	Recovery		Range
Arsenic		0.500	0.021	0.520	99.8%		80% - 120%
Barium		0.500	2.41	2.80	96.2%		80% - 120%
Cadmium		0.500	0.002	0.501	99.8%		80% - 120%
Chromium		0.500	0.011	0.510	99.8%		80% - 120%
Lead		0.500	0.009	0.509	100.0%		80% - 120%
Mercury		0.050	ND	0.049	98.0%		80% - 120%
Seleium		0.500	0.006	0.505	99.8%		80% - 120%
Silver		0.500	ND	0.499	99.8%		80% - 120%

ND - Parameter not detected at the stated detection limit.

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments: QA/QC for sample 24465.

Analyst

CHAIN OF CUSTODY RECORD

	Project Location				
			ANALYSIS	ANALYSIS / PARAMETERS	
Contract Compressor IX	Mallen Dil	(pmb			
	Client No. 98059-030	030	o o f inners چ چ	Remarks	
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matrix	StnoO		
09 12/19/02 13:20	34465	50.1	3		
Relinquished by: (Signature)	Date	Time	eived by: (Signature)	Date	Time
gross Xillion	1219	0240	Mist m Wester	20/5/12/	37:8/
Relinquished by: (Signature)		<u>E</u>	Received by: (Signatur¢)		
Relinquished by: (Signature)))	Received by: (Signature)		
	<u> </u>	N N N N N N N N N N N N N N N N N N N	WEOTECH INC	Sample Receipt	
				z ,	N/A
	l	5796 U.S. I	5796 U.S. Highway 64	Received Intact	
	<u>Τ</u>	armington, Nev (505) 63	ton, New Mexico 67401 (505) 632-0615	Cool - Ice/Blue Ice	

Kieling, Martyne

From: Phil No

Phil Nobis [phil@instreem.net]

Sent: Thursday, September 19, 2002 7:23 AM

To: Kieling, Martyne

Subject: Re: Landfarm Permit

Thanks Martyne. It all makes sense now. Relative to the farm not being tilled. It's a bogus report. It presently has been about two weeks since it was tilled. But as usual and please feel free to check out my claim, it has rained cats and dogs here for the past three days making it impossible to till at this time. As soon as it's safe and practical we will continue to till the landfarm on schedule. As soon as I can get together with Jon, I will forward the tilling report for the past three months. If the report of our failure to till has anything to do with a Phase I and II Assessment Report by Blagg Engineering, he will soon be the subject of litigation for his false and damaging claims re: all of the landfarm prior to the sale.

Thanks,

PCN

---- Original Message -----From: Kieling, Martyne

To: 'Phil Nobis'; 'darrin@instreem.net'
Cc: Foust, Denny; Anderson, Roger

Sent: Wednesday, September 18, 2002 4:22 PM

Subject: RE: Landfarm Permit

Phil.

Please excuse the format of this response I just went through your questions item by item. This was the quickest way to respond.

The Permit is supposed to be a replica to the one Tierra had previously dated September 21, 1999 only shrinking it back to the original Tract A Size that is the reason for some of the items regarding waste acceptance.

We have received your letter regarding closure and according to the permit it is understood that Tierra will not be accepting any new material.

- 2. A closure plan to include the following closure procedures will be submitted to the OCD for approval:
 - a. When the facility is to be closed no new material will be accepted.
- b. The soils beneath the sludge/mud receiving and treatment area and landfarm will be characterized as to total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) content to determine potential migration of contamination.
 - c. All above and below grade tanks will be emptied and any waste will be hauled to an OCD-approved facility. The empty tanks will be removed.
 - d. Contaminated soils or existing landfarm soils will be remediated until they meet the OCD standards in effect at the time of closure or removed to an OCD-approved facility.
 - e. The area will be contoured, seeded with native grasses and allowed to return to its natural state. If the landowner desires to keep existing structures, berms, or fences for future alternative uses the structures, berms, or fences may be left in place.
 - f. Closure will be pursuant to all OCD requirements in effect at the time of closure, and any other applicable local, state and/or federal regulations.

The Permit reference that has JFJ listed is a Type-o that we did not catch, however, Denny found it after it went out and I have made a note in the file.

5. JFJ Landfarm L.L.C. must notify the **OCD Aztec District office within 24 hours** of any fire, break, leak, spill, blowout or any other circumstance that could constitute a hazard or contamination in accordance with OCD Rule 116

It should read:

5. Tierra must notify the **OCD Aztec District office within 24 hours** of any fire, break, leak, spill, blowout or any other circumstance that could constitute a hazard or contamination in accordance with OCD Rule 116.

Please note in the first paragraph of the Permit cover letter it recognizes the closure of Tierra.

"The application consists of the letter dated July 22, 2002 requesting transfer of Tract "B" to JFJ Landfarm L.L.C. and approval for Tierra Environmental Company, Inc. to hold Tract "A" and begin closure procedures."

I hope this explanation helps. If not please let me know and I will work with you.

ADDITIONAL ITEMS:

The OCD Santa Fe office has received a report that the Tierra Landfarm has not been tilled according to the permit schedule.

5. Soils must be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants. ...

Please submit the records kept regarding the date of tilling for all cells within the Tract A landfarm for the past three months.

I have received Darrin Church's E-mail regarding the notification that the County will be placing a road through the landfarm. I should have a letter out to you by Monday September 23 regarding any questions that the OCD has and/or permit requirements that might apply.

Take care of that leg of yours and watch out for your Dog, John said she/he triped you up.

Sincerely

Martyne J. Kieling

----Original Message-----

From: Phil Nobis [mailto:phil@instreem.net] **Sent:** Wednesday, September 18, 2002 10:11 AM

To: Kieling, Martyne **Subject:** Landfarm Permit

Martyne,

I don't quite understand the permits references to soil acceptance etc. I have submitted a closure plan to you and advised that no new material is being accepted. There are no tanks on tract A and JFJ landfarms own the mixing trough. Then under reporting and record keeping it refers to JFJ landfarms requirement to report. And at the end it wants Tierras signature agreeing to the requirements that JFJ has to keep.

Please clarify. I am only working half days because of my broken leg. But I can access my e-mail at home also. If you want to call you can talk to Darrin.

Thanks,
Phil Nobis
PCN

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources CEIVED

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

FEB 1 0 2003

Revised March 17, 1999 Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

OH CONSERVATION

REQUEST FOR APPROVAL TO ACCEP	T`SOLID WASTE
1. RCRA Exempt: □ Non-Exempt: □	4. Generator: BJ Services
Verbal Approval Received: Yes ☐ No ☒ ← CE	Originating Site: Wash Bay
2. Management Facility Destination: Envirotech Soil Remediation Facility, Landfarm #2	6. Transporter: Riley
3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 87401	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 3250 Southside River Road, Farmington	Project #95026-001
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste clapproved 	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL:	
Wash bay solids continuation. TCLP dated 3/15/02, Re-affirmation, CWS a	ttached.
Estimated Volume _cy Known Volume (to be entered by the operator at the end of	the haul)cy
SIGNATURE Management Facility Authorized Agent TITLE: Environmental	Administrative Assistant DATE: 02/03/03
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	\ \ \ \ -
(This space for State Use) APPROVED BY: TITLE: FNO IVO	/Engl DATE: 2/03/03
APPROVED BY: TITLE: Environment	beday 20 DATE: 2/10/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-8170 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BJServices 3050 Southside River Road	Envirotech Soil Remediation Facility
	Landfarm #2 Hilltop, New Mexico
Frankyton, New Mex. 87401	MALIEUP, NEW MEXACO
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Wash Bay	
Attach list of originating sites as appropriate 4. Source and Description of Waste	
WASH BAY CONTINUATIO	, AL
1 Les Bough	representative for:
BJ Services (Print Name)	do hereby certify that,
	ery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	waste is: (Check appropriate classification)
EXEMPT oilfield waste NON-EXE analysis of	MPT oilfield waste which is non-hazardous by characteristic or by product identification
EXEMPT oilfield waste NON-EXE	MPT oilfield waste which is non-hazardous by characteristic or by product identification
EXEMPT oilfield waste NON-EXE analysis of	MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above.
EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or note that nothing has been added to the exempt or not	iMPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above.
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EXEMPT oilfield waste and that nothing has been added to the exempt or note in the exempt of note in the exem	MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. tation is attached (check appropriate items): Other (description):
EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and the nothing has been added to the exempt or not and the nothing has been added to the exempt or not and the nothing has been added to the exempt or not and the nothing has been added to the exempt or not and the nothing has been added to the exempt or not analysis of and that nothing has been added to the exempt or not analysis of and that nothing has been added to the exempt or not analysis of and that nothing has been added to the exempt or not analysis of and that nothing has been added to the exempt or not analysis of analysi	MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. tation is attached (check appropriate items): Other (description):



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

Printed Name

Title / Agency

Address

2050 Southside River Ro

FARMINGTON New Mex 87401

Signature

Date

2/3/03



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	BJ Services	Proiect #:	95026-001
Sample ID:	Wash Bay Sludge	Date Reported:	03-19-02
Laboratory Number:	22302	•	
•		Date Sampled:	03-15-02
Chain of Custody:	9853	Date Received:	03-15-02
Sample Matrix:	TCLP Extract	Date Analyzed:	03-19-02
Preservative:	Cool	Date Extracted:	03-18-02
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	0.440	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3250 Southside River Rd., Farmington, NM 87401.

Analyst

Review (Walter



EPA METHOD 8040 PHENOLS

Client:	BJ Services	Project #:	95026-001
Chert.		•	95020-001
Sample ID:	Wash Bay Sludge	Date Reported:	03-21-02
Laboratory Number:	22302	Date Sampled:	03-15-02
Chain of Custody:	9853	Date Received:	03-15-02
Sample Matrix:	TCLP Extract	Date Extracted:	03-18-02
Preservative:	Cool	Date Analyzed:	03-21-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

3250 Southside River Rd., Farmington, NM 87401.

Analyst



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	BJ Services	Project #:	95026-001
Sample ID:	Wash Bay Sludge	Date Reported:	03-20-02
Laboratory Number:	22302	Date Sampled:	03-15-02
Chain of Custody:	9853	Date Received:	03-15-02
Sample Matrix:	TCLP Extract	Date Extracted:	03-18-02
Preservative:	Cool	Date Analyzed:	03-20-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(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
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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:

3250 Southside River Road, Farmington, NM 87401.

Analyst C. Communication

Mister of Waller Review



SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: BJ Services Wash Bay Sludge Project #: Date Reported: 95026-001 03-19-02

Lab ID#: Sample Matrix:

22302 Sludge Date Sampled:

03-15-02

Preservative:

Cool

Date Received: Date Analyzed:

03-15-02 03-18-02

Condition:

Cool and Intact

Chain of Custody:

9853

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 7.47

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:

3250 Southside River Road, Farmington, NM 87401.

Analyst

Review



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

Client:	BJ Services	Project #:	95026-001
Sample ID:	Wash Bay Sludge	Date Reported:	03-21-02
Laboratory Number:	22302	Date Sampled:	03-15-02
Chain of Custody:	9853	Date Received:	03-15-02
Sample Matrix:	TCLP Extract	Date Extracted:	03-18-02
Preservative:	Cool	Date Analyzed:	03-21-02
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 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:

3250 Southside River Rd., Farmington, NM 87401.

Den P. Oylung Analyst

(Review Malter



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-20-02
Laboratory Number:	03-20-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-20-02
Condition:	N/A	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
· diamoto.	(-1.19. –)	(9, _)	(***9/2)
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
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	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 22302.

Analyst P. Ceferra

Mister of Walter
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-20-02
Laboratory Number:	03-18-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-20-02
Condition:	N/A	Date Extracted:	03-18-02
		Analysis Requested:	TCLP

·	,	Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(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
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	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 22302.

Analyst C. Office.

Mister m Walters



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

QA/QC	Project #:	N/A
Matrix Duplicate	Date Reported:	03-20-02
22302	Date Sampled:	N/A
TCLP Extract	Date Received:	N/A
TCLP	Date Analyzed:	03-20-02
N/A	Date Extracted:	03-18-02
	Matrix Duplicate 22302 TCLP Extract TCLP	Matrix Duplicate Date Reported: 22302 Date Sampled: TCLP Extract Date Received: TCLP Date Analyzed:

		Duplicate	**************************************	
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	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 22302.

Alen C. Cylina.

Mister m Walters
Review



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

Client: Sample ID: **QA/QC** Matrix Spike Project #: Date Reported: N/A 03-20-02

Laboratory Number:

22302

Date Sampled:

N/A

Sample Matrix:

TCLP Extract

Date Received:

N/A

Analysis Requested: Condition:

TCLP N/A

Date Analyzed: Date Extracted: 03-20-02 03-18-02

·			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	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	0.0490	0.0001	98%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.0495	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	NĎ	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	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 22302.



EPA METHOD 8040 PHENOLS

Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-21-02
Laboratory Number:	03-21-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-21-02
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(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 22302.

Analyst

Mister my Weller Review



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-21-02
Laboratory Number:	03-18-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	03-18-02
Condition:	Cool & Intact	Date Analyzed:	03-21-02
		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 22302.

Analyst C. Character



EPA METHOD 8040 PHENOLS Quality Assurance Report

	0.1/0.0	Desired the	h1/A
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-21-02
Laboratory Number:	22302	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	03-18-02
Condition:	Cool & Intact	Date Analyzed:	03-21-02
		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 22302.

Analyst P. Officer



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-21-02
Laboratory Number:	03-21-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	03-21-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

96%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for sample 22302.

Den C. Quin

Christin m Walters
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-21-02
Laboratory Number:	03-18-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	03-18-02
Condition:	Cool and Intact	Date Analyzed:	03-21-02
		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
HexachioroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptan	ce Criteria	Parameter	Percent Recovery
	÷	2-fluorobiphenyl	96%
Poforonicas:	Method 1311 Toxicity	Characteristic Leaching Procedure SV	N-846 LISEDA July 1002

References:

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 22302.

Den C. Que

Abrista m Wallers
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-21-02
Laboratory Number:	22302	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	03-18-02
Condition:	N/A	Date Analyzed:	03-21-02
		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
	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 22302.

Analyst C. Queca

Mistary Walles
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	03-19-TCM QA/QC	Date Reported:	03-19-02
Laboratory Number:	22302	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	03-19-02
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit			e % Difference	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.440	0.437	0.7%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	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	Spike	Sample	- Spiked	Percent :	Acceptance -
Conc. (mg/L)/	Added	as Hings Carps (1971).	Sample	Recovery	Range
Arsenic	0.500	ND	0.498	99.6%	80% - 120%
Barium	0.500	0.440	0.938	99.8%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.001	0.500	99.8%	80% - 120%
Lead	0.500	0.001	0.499	99.6%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.497	99.4%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 22302.

nalvst

Review Colles

CHAIN OF CUSTODY RECORD

	ANALYSIS / PARAMETERS	Remarks							Date Time	ettes 3-15-02 9:15		Sample Receipt	\(\frac{\z}{z} \)	Received Intact	
		ło	Sample No. Conta	-					Time Received by: (Signature)	12 Mist M Co	Received by: (Signature)	ENVIROTECH INC.		5796 U.S. Highway 64 Farmington, New Mexico 87401	
Project Location	3250 South side River Rd		S Lab Number	22302 SIL					te (03./5.02 Y:1		EUVIR		5796 Farmingto	
Client / Project Name	BJ Sevolices	Sampler:	Sample No./ Sample Sample Identification Date Time	Wash Bax Studge 3.15.02 Biss					Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)				

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

APPROVED BY:

State of New Mexico Energy Minerals and Natural Resources

Environmental Bureau Oil Conservation Division

RECEIVED

FFR 1 n 2003

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 4. Generator: Transwestern Pipeline 1. RCRA Exempt: Non-Exempt: \(\sum \) Originating Site: Bloomfield No 🖂 Verbal Approval Received: Yes \square Compressor Station 2. Management Facility Destination: Envirotech Soil Remediation Facility, 6. Transporter: Envirotech Landfarm #2 3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 8. State: New Mexico 87401 7. Location of Material (Street Address or ULSTR) 41 CR 4935 Lot 41, Project #01002-002 Bloomfield 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: One drum of soil contaminated by compressor oil; resulting from a tank overflow in their yard. CWS, Trace Metals, and RCI attached. Estimated Volume 1-drm cv Known Volume (to be entered by the operator at the end of the haul) cy **SIGNATURE** TITLE: Environmental Administrative Assistant DATE: 1/31/2003 TYPE OR PRINT NAME: Landrea R. Jackson TELEPHONE NO: (505) 632-0615 (This space for State Use) APPROVED BY:

01002-002



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

CIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1606 RIO BRAZOS ROAD AZTEC, MEW MEXICO 87419 (508) 214-6175 Fax (505)324-5116

GARY E. JOHNSON COVERNOR

Jenniper A. Salisbury Cabinet Secretary

CERTIFICATE OF WASTE STATUS

Continuelos Alamas

TRANSWESTERN PIPELINE CR 4935 LOT 41 PO BOX 399 BLOOMFIELD NM &7413	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico						
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):						
BLOOM FIELD COMPRESSOR STUTION Attach list of originating sites as appropriate	CR4935 LOT 41 BLOOMFIELD NM 87413						
4. Source and Description of Waste BLOOMFIELD COMPRESSOR STAT	TON						
OILY DIRT							
, JEFF GREIDER	representative for:						
TRANSWESTERN PIPELINE	do hereby certify that,						
EXEMPT citied waste X NON-EXEN analysis or and that nothing has been added to the exempt or not	NPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.						
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody							
This waste is in compliance with Regulated Lavels of N to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant						
Name (Original Signature): Jeff Brendes							
Maine (Original Signature).							
Title: SR O+M TECH							



TRACE METAL ANALYSIS

Client:	Transwestern Pipeline	Project #:	01002-002
Sample ID:	#2	Date Reported:	01-10-03
Laboratory Number:	24537	Date Sampled:	01-08-03
Chain of Custody:	10534	Date Received:	01-08-03
Sample Matrix:	Soil	Date Analyzed:	01-10-03
Preservative:	Cool	Date Digested:	01-09-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.026	0.004	F.0
		0.001	5.0
Barium	2.41	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.016	0.001	5.0
Lead	0.009	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.011	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Transwestern Yard.

Analyst

Review



TRACE METAL ANALYSIS Quality Control / **Quality Assurance Report**

Client:		QA/QC		Project #:			N/A
Sample ID:		01-10-TM	QA/QC	Date Repo	orted:		01-10-03
Laboratory Number:		24536		Date Sam	pled:		N/A
Sample Matrix:		Sludge		Date Rece	eived:		N/A
Analysis Requested:		Total RCR/	A Metals	Date Analy	yzed:		01-10-03
Condition:		N/A		Date Dige:	sted:		01-09-03
SASTELL COLOR DE ANTICONO DE CONTROL C	was gwee eer eerg	Method	Detecti		504000374 PC05 0014 78000 T0178	**************************************	
 Only 10 to 10 to 2006 (1996) (1996) (1996) (1996) (1996) (1996) 	Instrument Ilank (mg/L	v 811 /2003/2004 and 1 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	Limit		Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Barium	ND	ND	0.001	1.82	1.80	1.1%	0% - 30%
Cadmium	ND	ND	0.001	0.005	0.005	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.871	0.867	0.5%	0% - 30%
Lead	ND	ND	0.001	0.566	0.563	0.5%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
	rende en o				7 - 1641 <u>-</u> 1888(5085)		
Spike		Spike	Sampl		Percent		Acceptance
Conc. (mg/Kg)		Added		Sample	Recovery		Range
Arsenic		0.500	0.004	0.503	99.8%		80% - 120%
Barium		0.500	1.82	2.30	99.1%		80% - 120%
Cadmium		0.500	0.005	0.504	99.8%		80% - 120%
Chromium		0.500	0.871	1.36	99.2%		80% - 120%
Lead		0.500	0.566	1.05	98.5%		80% - 120%
Mercury		0.050	ND	0.049	98.0%		80% - 120%
Selenium		0.500	0.002	0.501	99.8%		80% - 120%
Silver		0.500	ND	0.499	99.8%		80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Review

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 24536 - 24537.

Analyst



SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID⁻ Transwestern Pipeline

Project #:

01002-002 01-10-03

Sample ID: Lab ID#: #2 24537 Date Reported: Date Sampled:

01-08-03

Sample Matrix:

Soil

Date Received:

01-08-03

Preservative: Condition:

Cool and Intact

Date Analyzed: Chain of Custody: 01-09-03 10534

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 8.13

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation

of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

Transwestern Yard.

Analyst

Review

CHAIN OF CUSTODY RECORD

AMETERS	Remarks								Date Time /8/δ3 (6:30)			Sample Receipt	Y/A ∨ ×	Received Intact	Cool - Ice/Blue Ice
ANALYSIS / PARAMETERS	o.o. of siners	Con)	1 1 1					Received by/(Signature)	Received by: (Signature)	Received by: (Signature)			hway 64	0615
and land	.002	Sample Matrix	Sludge	So, / "				•	Date Time Receip		Recei	FOVIDOTECH IOC		5796 U.S. Highway 64	(505) 632-0615
Project Location	Client No. 0 1002 - 00 2	Lab Number	24536	24537											
Peine	uscy	Sample Time	3 1415	3 1425	4)			\	d						
	14	Sample Date	01/03/03	0,/00/03				1	Harrel	ure)(ure)				
Client / Project Name	Sampler:	Sample No./ Identification	#/	#					Relinquished by Rignature	Relinquished by: (Signature)	Relinquished by: (Signature)				

District I - (505) 393-6161 P. O. Box 1940 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 **District III** - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV - (505) 827-7131

with the same

New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 OIL CO

Form C-138 Originated 4/18/95

> Submit Original Plus 1 Čopy to appropriate District Office

2132-026

REQUEST FOR APPROVAL NO ACCEPT	JOLIDANATE
1. RCRA Exempt: Non-Exempt: Dam to might	21 4. Generator Halliburton
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Main Yard
2. Management Facility Destination Facility Mandform #2	6. Transporter Halliburito
3. Address of Facility Operator Jasmington, NM 87401	8. State nm
7. Location of Material (Street Address or ULSTR) 4109 E. Main, Fa	rminator, NM 87 402
9. Circle One:	Johnson
 A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned. 	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
11.	1. MSDS attached.
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) ————— cy
Waste Management Pacility Authorized Agent	admin. asst. DATE: 1127103
TYPE OR PRINT NAME: LANdrea Jackson TEL	EPHONE NO. (505) 632-0615
(This space for State Use)	
APPROVED BY: Dent Tout TITLE: Envire	0/ Engt DATE: 1/31/03
APPROVED BY: Montyn The TITLE: Environ	num h Geologist DATE: 2/5/03

1/13UFICE 1 - (3U3) 3Y3-0101 1625 N. French Dr Hobbs, NM 88240 District 11 - (505) 748-1283 811 5 First Artesia, Nivi 88210 District III - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV - (505) 827-7131 2040 S Pacheco

Santa Fe, NM 87505

New Mexico

Form C-143 3/15/00

Energy Minerals and Natural Resources Department

mDy need Oil verbal approval s 10am 1123/03 from

Oil Conservation Division 2040 South Pacheco Street Santa Fe. New Mexico 87505

(505) 827-7131

Submit to OCD Permitted Surface Waste Management **Facility**

martyne pendling RCRQ

GENERATOR CERTIFICATE OF WASTE STATUS

	 2.Permit Number (if waste generated at an OCD
Halliburton ENergy Services	permitted facility)
4109 EMain ST	
FarmingTON NM. 17407	•
Farmins Tow N.M. 87402 3. Description of Waste and Generating Process:	4. Location of Waste (Street address &/or ULSTR):
Sod jum Silicate of Hal Solution	HallibuTTONE Nergy Service
Pumped down Hole for well Treatment	
Could Notplace ReTurn Flow to	4109 E. Main STreet.
Transport where IT pericpilated	FarmingTow
+ phasgrd Transport	
, , , , , , , , , , , , , , , , , , , ,	
5. Destination (Surface Waste Management Facility):	6. Transporter:
Ewvirotech L. F. #	•
11.11 to Alm	Hall. bux Tow
H_{i}/I_{i} N_{i}/N_{i} . 7. Estimated Volume I_{i} cy/bbls	
For NON EYEMPT woods only the following documentation is atte	shed (sheek appropriate items):
For NON-EXEMPT waste only, the following documentation is atta	iched (check appropriate items).
MSDS Information	RCRA Hazardous Waste Analysis (With Chain of Custody).
Other (Description) RCRAA NG/	1315
Senerator certifies that, according to the Resource Conservation a	and Recovery Act (RCRA) and the Environmental Protection
	and Recovery Act (RCRA) and the Environmental Protection
Senerator certifies that, according to the Resource Conservation a Agency's July 1988 regulatory determination, the above described	and Recovery Act (RCRA) and the Environmental Protection waste is: (check appropriate classification)
Senerator certifies that, according to the Resource Conservation a	and Recovery Act (RCRA) and the Environmental Protection waste is: (check appropriate classification) NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate
Senerator certifies that, according to the Resource Conservation a Agency's July 1988 regulatory determination, the above described	and Recovery Act (RCRA) and the Environmental Protection waste is: (check appropriate classification) NON-EXEMPT oilfield waste that is non-hazardous
Senerator certifies that, according to the Resource Conservation a Agency's July 1988 regulatory determination, the above described EXEMPT oilfield waste.	nnd Recovery Act (RCRA) and the Environmental Protection waste is: (check appropriate classification) NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) exempt or non-exempt non-hazardous waste and that this
Senerator certifies that, according to the Resource Conservation a Agency's July 1988 regulatory determination, the above described EXEMPT oilfield waste. n addition, Generator certifies that nothing has been added to this vaste does not contain Naturally Occurring Radioactive Material (nnd Recovery Act (RCRA) and the Environmental Protection waste is: (check appropriate classification) NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) exempt or non-exempt non-hazardous waste and that this
Benerator certifies that, according to the Resource Conservation a agency's July 1988 regulatory determination, the above described EXEMPT oilfield waste. n addition, Generator certifies that nothing has been added to this vaste does not contain Naturally Occurring Radioactive Material (1) Subpart 1403.	NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) sexempt or non-exempt non-hazardous waste and that this NORM) regulated pursuant to 20 NMAC 3.1
Senerator certifies that, according to the Resource Conservation a Agency's July 1988 regulatory determination, the above described EXEMPT oilfield waste. n addition, Generator certifies that nothing has been added to this vaste does not contain Naturally Occurring Radioactive Material (nnd Recovery Act (RCRA) and the Environmental Protection waste is: (check appropriate classification) NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) exempt or non-exempt non-hazardous waste and that this
Benerator certifies that, according to the Resource Conservation a agency's July 1988 regulatory determination, the above described EXEMPT oilfield waste. n addition, Generator certifies that nothing has been added to this vaste does not contain Naturally Occurring Radioactive Material (1) Subpart 1403.	NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) sexempt or non-exempt non-hazardous waste and that this NORM) regulated pursuant to 20 NMAC 3.1
Penerator certifies that, according to the Resource Conservation and Agency's July 1988 regulatory determination, the above described EXEMPT oilfield waste. In addition, Generator certifies that nothing has been added to this vaste does not contain Naturally Occurring Radioactive Material (Subpart 1403. Penerator Signature: Print Name: Merke Alexander Print	NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) sexempt or non-exempt non-hazardous waste and that this NORM) regulated pursuant to 20 NMAC 3.1
Benerator certifies that, according to the Resource Conservation and Agency's July 1988 regulatory determination, the above described EXEMPT oilfield waste. n addition, Generator certifies that nothing has been added to this vaste does not contain Naturally Occurring Radioactive Material (1) Subpart 1403. Benerator Signature:	NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) sexempt or non-exempt non-hazardous waste and that this NORM) regulated pursuant to 20 NMAC 3.1



SUSPECTED HAZARDOUS WASTE ANALYSIS

Project #: 92132-026 Client: Halliburton Energy Services 1 - Sodium Silicate Date Reported: 01-23-03 Sample ID: Date Sampled: 01-23-03 Lab ID#: 24627 Date Received: 01-23-03 Sample Matrix: Liquid Date Analyzed: 01-23-03 Preservative: Cool Chain of Custody: Condition: Cool and Intact 10571

Parameter Result

✓ IGNITABILITY: Negative

CORROSIVITY: Negative pH = 6.84

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

Parameter

Analyst

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: Halliburton Yard - Farmington.

Review

CHAIN OF CUSTODY RECORD

\RAMETERS	Remarks									Date Time /.23 d3 9.40			Sample Receipt	A/N N >	Received Intact	Cool - Ice/Blue Ice
(o of aine aine		<u> </u>						Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	OHIO		hway 64 Jexico 87401	0615
N YARD - FARMINGOL		. 02%	Sample Matrix	Liguid	3					0/-23-03 9:4℃	Recei	Recei	ENVIROTECH INC		5796 U.S. Highway 64 Farmington New Mexico 8:	(505) 632-0615
Project Location HA仏(るuとや)	Client No.	92132-	Lab Number	24627						M						
			Sample Time	3 9:01						2156						
		J	Sample Date	1-23-03						ure)	(aur	lre)				
Client / Project Name HA仏! &uれか	Sampler:	DEAN KRAUSE	Sample No./ Identification	1- Sodie-Silicate						Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)				

HALLIBURTON ENERGY SERVICES - SHIPPING PAPERS

FOR

MOVEMENT OF MATERIALS ACCORDING TO FEDERAL REGULATION AS SPECIFIED IN CFR 49, SEC.177.817 AND 176.24

LOCATION: FARMINGTON	
	FOR EMERGENCY CONTACT:
TRUCK# OR TRLR# : 6225	NAME: RANDY SNYDER
DDTIID	TELEPHONE: (505) 324-3500
DRIVER:	
U.S. DOT HAZMAT REG. NO 060700 005 0251 *HM:***********************************	
* * TOT GROSS LBS 4,897 NUM CONTAINERS	
* *++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
* * NOT RESTRICTED	
* *	
* *	
* *	
* *HALCO NAME & NO.: INJECTROL(R) COMPONENT	A - 54 GALLONS 70.15607
* * GROSS LBS/PKG:	ERG =>
********	*********
************	*********
THIS IS TO CERTIFY THAT THE ABOVE NAMED MATE	PIALS ARE PROPERLY CLASSIFIED
DESCRIBED, PACKAGED, MARKED AND LABELED, AND	•
· · · · · · · · · · · · · · · · · · ·	
TRANSPORTATION ACCORDING TO THE APPLICABLE R	EGULATIONS OF THE DEPARTMENT OF
TRANSPORTATION.	
STANATURE	

PAGE 1

DATE: 01-22-03 MATERIAL SAFETY DATA SHEET HALLIBURTON ENERGY SERVICES REVISED DATE 04-07-99 DUNCAN, OKLAHOMA 73536

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

CHEMICAL CODE: INJECTROL(R) COMPONENT A - 54 GALLONS PART NUMBER: 070156070

PKG OTY: 54 GALLON DRUM APPLICATION: RESIN

SERVICE USED: WATER & SAND

PERCENT TLV PEL

31-60 % C 2 MG/M3 2 MG/M3 SODIUM SILICATE

> PROPERTY MEASUREMENT

CLEAR COLORLESS TO HAZY LIQUID APPEARANCE

NONE TO SLIGHTLY SOAPY ODOR

SPECIFIC GRAVITY (H2O=1) 1.400

11.66 LB/GAL BULK DENSITY

11.3

SOLUBILITY IN WATER AT

20 DEG C. GMS/100ML H20 COMPLETE BIODEGRADABILITY SLOWLY PERCENT VOLATILES N/D EVAPORATION RATE (BUTYL ACETATE=1) N/D

VAPOR DENSITY N/D VAPOR PRESSURE (MMHG) 156.00

213 F / 100 C BOILING POINT (760 MMHG) 35 F / 1 C POUR POINT FREEZE POINT 30 F / -1 C SOLUBILITY IN SEAWATER NOT EVALUATED PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED

NFPA(704) RATING:

HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 SPECIAL NONE

FLASH POINT

NONE

AUTOIGNITION TEMPERATURE ND F / ND C FLAMMABLE LIMITS (% BY VOLUME) LOWER ND UP UPPER ND

EXTINGUISHING MEDIA:

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

SPECIAL FIRE FIGHTING PROCEDURES:

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTACT CAUSES BURNS TO EYES AND SKIN.

CALIFORNIA PROPOSITION 65:

PN: 070156070 PAGE 2 PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO: "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: IRR SKN-HMN 250 MG/24H SEVERE

IRR SKN-RBT 250 MG/24H SEVERE

TOX ORL-RAT LD50: 2000-3000 MG/KG

AQU TLM96: 2320 PPM

PRODUCT TLV: C 2MG/M3 (AS NAOH)

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

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

SKIN:

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

INHALATION:

VAPOR, MIST OR SPRAY CAUSE SEVERE IRRITATION OF UPPER RESPIRATORY SYSTEM. INGESTION:

CORROSIVE TO MOUTH, ESOPHAGUS, AND STOMACH UPON INGESTION.

CHRONIC EFFECTS:

NO CHRONIC EFFECTS EXPECTED.

OTHER SYMPTOMS AFFECTED:

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

------ EMERGENCY AND FIRST AID PROCEDURES

EYE:

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

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

INHALATION:

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

INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION.

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG ACIDS.

AMPHOTERIC METALS SUCH AS ALUMINUM, MAGNESIUM, LEAD, TIN OR ZINC, WHICH MAY GENERATE AND LIBERATE FLAMMABLE HYDROGEN GAS.

HAZARDOUS DECOMPOSITION PRODUCTS:

CONTACT WITH ACID CAUSES EVOLUTION OF HEAT.

HAZARD POLYMERIZATION: WON"T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

PN: 070156070 PAGE 3

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLÀTE SPILL AND STOP LEAK WHERE SAFE. CONTAIN AND NEUTRALIZE TO A PH OF 6-8. SCOOP UP AND REMOVE.

WASTE DISPOSAL METHOD:

IF MATERIAL HAS BEEN COMPLETELY NEUTRALIZED, GET APPROVAL FROM A SANITARY LANDFILL OPERATOR AND TRANSPORT TO A SANITARY LANDFILL. IF NOT GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL FACILITY, AUTHORIZED UNDER EPA/RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP ABSORBED MATERIAL TO SITE.

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

VENTILATION:

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

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM. OTHER PROTECTIVE EQUIPMENT:

WEAR FULL PROTECTIVE SUIT WHEN SKIN CONTACT IS POSSIBLE.

PRECAUTIONARY LABELING INJECTROL(R) COMPONENT A - 54 GALLONS 070.156070

DANGER!

MAY CAUSE SEVERE IRRITATION OF THE RESPIRATORY SYSTEM.

MAY CAUSE SEVERE EYE AND SKIN BURNS.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM STRONG ACIDS.

STORE IN A COOL WELL VENTILATED LOCATION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

IF CONTAINER RETAINS PRODUCT RESIDUES, LABEL PRECAUTIONS MUST BE OBSERVED. STORE CONTAINER WITH CLOSURES IN PLACE. OFFER EMPTY CONTAINER TO RECONDITIONOR OR RECYCLER FOR RECONDITIONING OR DISPOSAL. ENSURE RECONDITIONER OR RECYCLER IS AWARE OF THE PROPERTIES OF THE CONTENTS.

SPECIAL PRECAUTIONS:

DO NOT SPREAD SPILLED MATERIAL WITH WATER.

DOT SHIPPING DESCRIPTION:

NOT RESTRICTED

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

- B. EPA CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY) N/A
- C. EPA SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES) PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS
- D. EPA SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

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- E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

 TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE DRSM NE
- H. EPA RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

PCL XL error

Warning: Courier substituted for CourierPS

HALLIBURTON ENERGY SERVICES - SHIPPING PAPERS FOR

MOVEMENT OF MATERIALS ACCORDING TO FEDERAL REGULATION AS SPECIFIED IN CFR 49, SEC.177.817 AND 176.24

| LOCATION: FARMINGTON | |
|---|---|
| TRUCK# OR TRLR# : 6225 | FOR EMERGENCY CONTACT: NAME: RANDY SNYDER TELEPHONE: (505) 324-3500 |
| DRIVER:
U.S. DOT HAZMAT REG. NO 060700 005 0251 | |
| *HM: ************ | |
| * * TOT GROSS LBS 7,245 NUM CONTAINERS: | |
| * *+++++++++++++++++++++++++++++++++++ | |
| * * | ¥ |
| * *HALCO NAME & NO.: HYDROCHLORIC ACID SOLUT
* * GROSS LBS/PKG: | ERG => 60 |
| ********** | |
| * | • |
| ************ | |
| * * TOT GROSS LBS 1,168 NUM CONTAINERS: | |
| * *++++++++++++++++++++++++++++++++++++ | |
| *X *SODIUM HYDROXIDE SOLUTION - 8 - UN1824 - | 11 |
| * * | |
| * * | |
| * *HALCO NAME & NO.: MO-67 - 55 GALLONS | 516.00308 |
| * * GROSS LBS/PKG: | ERG => 60 |
| ************ | ************* |
| ********* | ********* |
| ********* | ******** |
| * * TOT GROSS LBS 8 NUM CONTAINERS: | TYPE: 330 GALLON TANK |
| * *++++++++++++++++++++++++++++++++++++ | +++++++++++++++++++++++++++++++++++++++ |
| *X *FLAMMABLE LIQUID, N.O.S 3 - UN1993 - I
* *(CONTAINS ISOPROPANOL) | I |
| * * | |
| * * * * *HALCO NAME & NO.: LOSURF-300 NONIONIC SUF | REACTANT - HAL-TANK 516 00179 |
| * * GROSS LBS/PKG: | ERG => 27 |
| ********* | ********* |
| *********** | ********** |
| THIS IS TO CERTIFY THAT THE ABOVE NAMED MATER DESCRIBED, PACKAGED, MARKED AND LABELED, AND TRANSPORTATION ACCORDING TO THE APPLICABLE RETRANSPORTATION. | ARE IN PROPER CONDITION FOR |
| SIGNATURE | |

DEPARTMENT OF TRANSPORTATION (DOT)

FOR PN# NIS1116 0

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HALLIBURTON SERVICES DATE: 01/22/03 DUNCAN, OKLAHOMA 73536 REVISED DATE: 11/21/95

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

POTENTIAL HAZARDS

HEALTH HAZARDS

CONTACT CAUSES BURNS TO SKIN AND EYES.

IF INHALED, MAY BE HARMFUL.

FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.

RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

FIRE OR EXPLOSION

SOME OF THESE MATERIALS MAY BURN, BUT NONE OF THEM IGNITES READILY. FLAMMABLE/POISIONOUS GASES MAY ACCUMULATE IN TANKS AND HOPPER CARS. SOME OF THESE MATERIALS MAY IGNITE COMBUSTIBLES (WOOD, PAPER, OIL ETC.).

EMERGENCY ACTION

KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY ENTRY. STAY UPWIND: KEEP OUT OF LOW AREAS.

POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL PROVIDE LIMITED PROTECTION.

CALL EMERGENCY RESPONSE TELEPHONE NUMBER ON SHIPPING PAPER FIRST. IF SHIPPING PAPER NOT AVAILABLE OR NO ANSWER, CALL CHEMTREC, 1-800-424-9300 IF WATER POLLUTION OCCURS, NOTIFY THE APPROPRIATE AUTHORITIES.

FIRE

SOME OF THESE MATERIALS MAY REACT VIOLENTLY WITH WATER.

SMALL FIRES: DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM.

LARGE FIRES: WATER SPRAY, FOG OR REGULAR FOAM.

MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK.

APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO

FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS.

SPILL OR LEAK

DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL; STOP LEAK IF YOU CAN DO IT WITHOUT RISK.

SMALL SPILLS: TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL.

SMALL DRY SPILLS: WITH CLEAN SHOVEL PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER LOOSELY; MOVE CONTAINERS FROM SPILL AREA. LARGE SPILLS: DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

FIRST AID

MOVE VICTIM TO FRESH AIR; CALL EMERGENCY MEDICAL CARE.
IN CASE OF CONTACT WITH MATERIAL, IMMEDIATELY FLUSH SKIN OR EYES
WITH RUNNING WATER FOR AT LEAST 15 MINUTES.
REMOVE AND ISOLATE CONTAMINATED CLOTHING AND SHOES AT THE SITE.
KEEP VICTIM QUIET AND MAINTAIN NORMAL BODY TEMPERATURE.

FOR PN# 516003080

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HALLIBURTON SERVICES DATE: 01/22/03 DUNCAN, OKLAHOMA 73536 REVISED DATE: 11/21/95

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

POTENTIAL HAZARDS

HEALTH HAZARDS

CONTACT CAUSES BURNS TO SKIN AND EYES.

IF INHALED, MAY BE HARMFUL.

FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.

RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

FIRE OR EXPLOSION

SOME OF THESE MATERIALS MAY BURN, BUT NONE OF THEM IGNITES READILY. FLAMMABLE/POISIONOUS GASES MAY ACCUMULATE IN TANKS AND HOPPER CARS. SOME OF THESE MATERIALS MAY IGNITE COMBUSTIBLES (WOOD, PAPER, OIL ETC.).

EMERGENCY ACTION

KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY ENTRY. STAY UPWIND; KEEP OUT OF LOW AREAS.

POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL PROVIDE LIMITED PROTECTION.

CALL EMERGENCY RESPONSE TELEPHONE NUMBER ON SHIPPING PAPER FIRST. IF SHIPPING PAPER NOT AVAILABLE OR NO ANSWER, CALL CHEMTREC, 1-800-424-9300 IF WATER POLLUTION OCCURS, NOTIFY THE APPROPRIATE AUTHORITIES.

FIRE

SOME OF THESE MATERIALS MAY REACT VIOLENTLY WITH WATER.

SMALL FIRES: DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM.

LARGE FIRES: WATER SPRAY, FOG OR REGULAR FOAM.

MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK.

APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO

FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS.

SPILL OR LEAK

DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL; STOP LEAK IF YOU CAN DO IT WITHOUT RISK.

SMALL SPILLS: TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL.

SMALL DRY SPILLS: WITH CLEAN SHOVEL PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER LOOSELY; MOVE CONTAINERS FROM SPILL AREA. LARGE SPILLS: DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

FIRST AID

MOVE VICTIM TO FRESH AIR; CALL EMERGENCY MEDICAL CARE.
IN CASE OF CONTACT WITH MATERIAL, IMMEDIATELY FLUSH SKIN OR EYES
WITH RUNNING WATER FOR AT LEAST 15 MINUTES.
REMOVE AND ISOLATE CONTAMINATED CLOTHING AND SHOES AT THE SITE.
KEEP VICTIM QUIET AND MAINTAIN NORMAL BODY TEMPERATURE.

FOR PN# 516001790

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HALLIBURTON SERVICES DATE: 01/22/03 DUNCAN, OKLAHOMA 73536 REVISED DATE: 08/10/95

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

POTENTIAL HAZARDS

FIRE OR EXPLOSION

FLAMMABLE/COMBUSTIBLE MATERIAL; MAY BE IGNITED BY HEAT, SPARKS OR FLAMES.

VAPORS MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINER MAY EXPLODE IN HEAT OF FIRE.

VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN SEWERS.

RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

HEALTH HAZARDS

MAY BE POISONOUS IF INHALED OR ABSORBED THROUGH SKIN.

VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION.

CONTACT MAY IRRITATE OR BURN SKIN AND EYES.

FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.

RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION. EMERGENCY ACTION

KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY ENTRY. STAY UPWIND; KEEP OUT OF LOW AREAS.

POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL PROVIDE LIMITED PROTECTION.

ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE.

FIRE

SMALL FIRES: DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM.

LARGE FIRES: WATER SPARY, FOG OR REGULAR FOAM.

MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK.

APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO

FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS.

FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER OR

MONITOR NOZZLES; IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND

LET FIRE BURN.

WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANK DUE TO FIRE.

SPILL OR LEAK

SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING OR FLAMES IN HAZARD AREA.

STOP LEAK IF YOU CAN DO IT WITHOUT RISK.

WATER SPRAY MAY REDUCE VAPOR; BUT IT MAY NOT PREVENT IGNITION IN CLOSED SPACES.

SMALL SPILLS: TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL.

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

FIRST AID

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

HAZARD GUIDE: 27 FOR PN# 516001790

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GIVE OXYGEN.

IN CASE OF CONTACT WITH MATERIAL, IMMEDIATELY FLUSH EYES WITH

RUNNING WATER FOR AT LEAST 15 MINUTES. WASH SKIN WITH SOAP AND WATER. REMOVE AND ISOLATE CONTAMINATED CLOTHING AND SHOES AT THE SITE.

CALL Emergency Response Telephone Number on Shipping Paper "FIRST". If Shipping Paper "NOT AVAILABLE" OR "NO ANSWER", CALL CHEMTREC AT 1-800-424-9300 MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 01-22-03
REVISED DATE 04-07-99

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

CHEMICAL CODE: HYDROCHLORIC ACID SOLUTION W/ HAI-85M PART NUMBER: NIS1116 0

PKG QTY: CARGO TANK APPLICATION: SOLVENT SERVICE USED: CHEM.SRVCS./OTIS SC

* * * * * * * * * * * * SECTION II - COMPONENT INFORMATION * * * * * * * * * * *

COMPONENT+ + + + + + + + + + PERCENT TLV PEL

HYDROCHLORIC ACID 11-30 % C 5 PPM C 5 PPM

PROPERTY . MEASUREMENT

APPEARANCE CLEAR, COLORLESS LIQUID

ODOR PUNGENT, ACRID SPECIFIC GRAVITY (H2O=1) 1.160

BULK DENSITY 9.66 LB/GAL PH 0.8 FOR 1% SOL

SOLUBILITY IN WATER AT

20 DEG C. GMS/100ML H20 SOLUBLE BIODEGRADABILITY N/D PERCENT VOLATILES 35 EVAPORATION RATE(BUTYL ACETATE=1) >1 VAPOR DENSITY 1.27

VAPOR DENSITY 1.27
VAPOR PRESSURE (MMHG) 26.00

BOILING POINT (760 MMHG) 230 F / 110 C POUR POINT N/D

FREEZE POINT -50 F / -45 C SOLUBILITY IN SEAWATER NOT EVALUATED PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED

NFPA(704) RATING:

HEALTH 3 FLAMMABILITY 0 REACTIVITY 1 SPECIAL NONE

FLASH POINT F / C

AUTOIGNITION TEMPERATURE

FLAMMABLE LIMITS (% BY VOLUME) LOWER ND UPPER ND

EXTINGUISHING MEDIA:

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

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:

REACTION WITH STEEL, AND CERTAIN OTHER METALS GENERATES FLAMMABLE AND POTENTIALLY EXPLOSIVE HYDROGEN GAS. CONSIDERABLE HEAT IS EVOLVED WHEN CONTACTED WITH MANY SUBSTANCES.

DO NOT ALLOW RUNOFF TO ENTER WATERWAYS.

PN: NIS1116 0 PAGE 2

CONTACT CAUSES BURNS TO EYES AND SKIN.

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

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO: "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: TOX IHL-HMN LCLO:1300 MG/30M

TOX ORL-RBT LD50:900 MG/KG

TOX IHL-RAT LC50:3124 PPM/1H

AQU TLM96: 282 PPM

PRODUCT TLV: NOT DETERMINED

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

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE

VAPORS, MIST OR SPRAY MAY CAUSE SEVERE IRRITATION.

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

SKIN:

MAY BE ABSORBED THROUGH SKIN. MODERATE SYSTEMIC TOXICITY THROUGH THE SKIN. MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

INHALATION:

VAPOR, MIST OR SPRAY CAUSE SEVERE IRRITATION OF UPPER RESPIRATORY SYSTEM. INGESTION:

CORROSIVE TO MOUTH, ESOPHAGUS, AND STOMACH UPON INGESTION.

CHRONIC EFFECTS:

CONTINUED EXPOSURE CAN ERODE THE TEETH.

OTHER SYMPTOMS AFFECTED:

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

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

EYE

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

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

INHALATION:

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

INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION.

STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

ALKALIES (EG. AMMONIA AND ITS SOLUTIONS, CARBONATES, SODIUM HYDROXIDE (CAUSTIC), POTASSIUM HYDROXIDE, CALCIUM HYDROXIDE, CYANIDES, SULFIDES,

PN: NIS1116 0 PAGE 3

HYPOCHLORITES, CHLORITES) WHICH CAN GENERATE HEAT WITH SPLATTERING OR BOILING AND THE RELEASE OF TOXIC FUMES.

HYDROCHLORIC ACID MAY GENERATE AND RELEASE FLAMMABLE HYDROGEN AND TOXIC CHLORINE GAS IN THE PRESENCE OF IRON. IN THE PRESENCE OF IRON SULFIDE, HYDROCHLORIC ACID MAY PRODUCE HIGHLY TOXIC HYDROGEN SULFIDE.

HAZARDOUS DECOMPOSITION PRODUCTS: MAY RELEASE HYDROGEN AND CHLORINE GAS IN THE PRESENCE OF IRON, AND HYDROGEN SULFIDE IN THE PRESENCE OF IRON SULFIDE. HAZARD POLYMERIZATION: WON"T OCCUR CONDITIONS TO AVOID: NOT APPLICABLE. STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AND STOP LEAK WHERE SAFE. CONTAIN AND NEUTRALIZE TO A PH OF 6-8. SCOOP UP AND REMOVE. WASTE DISPOSAL METHOD: IF MATERIAL HAS BEEN COMPLETELY NEUTRALIZED, GET APPROVAL FROM A SANITARY LANDFILL OPERATOR AND TRANSPORT TO A SANITARY LANDFILL. IF NOT GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL FACILITY, AUTHORIZED UNDER EPA/RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP ABSORBED MATERIAL TO SITE. * * * * * * * * * * SECTION VIII - SPECIAL PROTECTION INFORMATION * * * * * * * RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT): ACID GAS CHEMICAL CARTRIDGE RESPIRATOR. VENTILATION: USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION. PROTECTIVE GLOVES: BUTYL GLOVES. EYE PROTECTION: WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM. OTHER PROTECTIVE EQUIPMENT: WEAR FULL PROTECTIVE SUIT WHEN SKIN CONTACT IS POSSIBLE. PRECAUTIONARY LABELING HYDROCHLORIC ACID SOLUTION W/ HAI-85M DANGER! MAY CAUSE SEVERE IRRITATION TO EYES AND UPPER RESPIRATORY SYSTEM. MAY BE ABSORBED THROUGH THE SKIN. MAY CAUSE SEVERE EYE AND SKIN BURNS. FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII. OTHER HANDLING AND STORAGE CONDITIONS: STORE AWAY FROM ALKALIES. STORE IN A COOL WELL VENTILATED LOCATION. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AVOID BREATHING VAPORS. CONTAINER DISPOSITION: EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING LANDFILL OPERATOR'S AUTHORIZATION. DOT SHIPPING DESCRIPTION:

HYDROCHLORIC ACID SOLUTION - 8 - UN1789 - II RQ (HYDROCHLORIC ACID - 5000 LBS)

PN: NIS1116 0 PAGE 4

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

- B. EPA CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY) 5000 POUNDS- HYDROCHLORIC ACID
- C. EPA SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES) PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS
- D. EPA SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)
 COMPONENT NAME
 CAS-REG-NO
 PCT
 HYDROCHLORIC ACID
 7647-01-0
 11-30 %
- E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES
 TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE DRSM NE
- H. EPA RCRA (HAZARDOUS WASTE), 40 CFR 261

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

CORROSIVITY

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

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

EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359 CHEMICAL CODE: MO-67 - 55 GALLONS PART NUMBER: 516003080 PKG QTY: 55 GALLON DRUM APPLICATION: OIL GELLING SERVICE USED: CHEMICAL SERVICES PERCENT 11-30 % C 2 MG/M3 C 2 MG/M3 SODIUM HYDROXIDE PROPERTY MEASUREMENT APPEARANCE CLEAR, COLORLESS LIQUID ODOR ODORLESS SPECIFIC GRAVITY (H2O=1) 1.275 BULK DENSITY 10.62 LB/GAL 14 FOR 7.5% SOL. SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H20 COMPLETE BIODEGRADABILITY N/DPERCENT VOLATILES > 70 EVAPORATION RATE (BUTYL ACETATE=1) N/A VAPOR DENSITY N/A VAPOR PRESSURE (MMHG) 12.00 3234 F / 112 C BOILING POINT (760 MMHG) POUR POINT N/D 507 F / -13 C FREEZE POINT SOLUBILITY IN SEAWATER NOT EVALUATED PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED NFPA(704) RATING: HEALTH 3 FLAMMABILITY 0 REACTIVITY 1 SPECIAL NONE FLASH POINT NONE AUTOIGNITION TEMPERATURE ND ND FLAMMABLE LIMITS (% BY VOLUME) LOWER N/D UPPER N/D EXTINGUISHING MEDIA: USE MEDIA APPROPRIATE FOR SURROUNDING MATERIALS. SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL. UNUSUAL FIRE AND EXPLOSION HAZARDS: MAY FORM EXPLOSIVE MIXTURE WITH STRONG ACIDS. CONTACT CAUSES BURNS TO EYES AND SKIN. PN: 516003080 PAGE 2 CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN

ACCORDING TO: "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: IRR SKN-RBT 50 MG/24H SEV

IRR EYE-RBT 50 UG/24H SEV TOX IPR-MUS LD50: 40 MG/KG

PRODUCT TLV: C 2 MG/M3

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

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

VAPORS, MIST OR SPRAY MAY CAUSE SEVERE IRRITATION.

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

SKIN:

MAY CAUSE SEVERE BURNS WITH POSSIBLE PERMANENT TISSUE DAMAGE DEPENDING ON THE LENGTH OF EXPOSURE AND THE FIRST AID ACTION GIVEN.

INHALATION:

VAPOR, MIST OR SPRAY CAUSE SEVERE IRRITATION OF UPPER RESPIRATORY SYSTEM. INGESTION:

CORROSIVE TO MOUTH, ESOPHAGUS, AND STOMACH UPON INGESTION.

CHRONIC EFFECTS:

CONTINUED EXPOSURE CAN ERODE THE TEETH.

OTHER SYMPTOMS AFFECTED:

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

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

EYE

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

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

INHALATION:

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

INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION.

STABILITY: STABLE CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG ACIDS (EG. SULFURIC, PHOSPHORIC, NITRIC, HYDROCHLORIC, CHROMIC, SULFONIC) WHICH CAN GENERATE HEAT, SPLATTERING OR BOILING AND THE RELEASE OF TOXIC FUMES.

AMPHOTERIC METALS SUCH AS ALUMINUM, MAGNESIUM, LEAD, TIN OR ZINC, WHICH MAY GENERATE AND LIBERATE FLAMMABLE HYDROGEN GAS.

HAZARDOUS DECOMPOSITION PRODUCTS:

NONE KNOWN.

HAZARD POLYMERIZATION: WON"T OCCUR

PN: 516003080 PAGE 3

CONDITIONS TO AVOID:

NOT APPLICABLE.

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AND STOP LEAK WHERE SAFE. CONTAIN AND NEUTRALIZE TO A PH OF 6-8. SCOOP UP AND REMOVE.
WASTE DISPOSAL METHOD:

IF MATERIAL HAS BEEN COMPLETELY NEUTRALIZED, GET APPROVAL FROM A SANITARY LANDFILL OPERATOR AND TRANSPORT TO A SANITARY LANDFILL. IF NOT GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL FACILITY, AUTHORIZED UNDER EPA/RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP ABSORBED MATERIAL TO SITE.

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

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

TOXIC DUST/MIST RESPIRATOR.

VENTILATION:

V ...

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

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM. OTHER PROTECTIVE EQUIPMENT:

WEAR FULL PROTECTIVE SUIT WHEN SKIN CONTACT IS POSSIBLE.

PRECAUTIONARY LABELING MO-67 - 55 GALLONS

516.003080

DANGER!

MAY CAUSE SEVERE EYE AND SKIN BURNS.

MAY CAUSE SEVERE IRRITATION TO THE UPPER RESPIRATORY SYSTEM.

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM STRONG ACIDS.

STORE IN A COOL WELL VENTILATED LOCATION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

IF CONTAINER RETAINS PRODUCT RESIDUES, LABEL PRECAUTIONS MUST BE OBSERVED. STORE CONTAINER WITH CLOSURES IN PLACE. OFFER EMPTY CONTAINER TO RECONDITIONOR OR RECYCLER FOR RECONDITIONING OR DISPOSAL. ENSURE RECONDITIONER OR RECYCLER IS AWARE OF THE PROPERTIES OF THE CONTENTS.

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

DOT SHIPPING DESCRIPTION:

SODIUM HYDROXIDE SOLUTION - 8 - UN1824 - II

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION FIRE: N PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

- B. EPA CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY) 475 GALS. SODIUM HYDROXIDE
- C. EPA SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PN: 516003080 PAGE 4

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

- D. EPA SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS) SODIUM HYDROXIDE 1310-73-2 11-30 %
- E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES
 TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE DRSM NE
- H. EPA RCRA (HAZARDOUS WASTE), 40 CFR 261

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

CORROSIVITY

. . .

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

LOSURF-300 NONIONIC SURFACTANT - HAL-TANK

PAGE

MATERIAL SAFETY DATA SHEET HALLIBURTON ENERGY SERVICES DUNCAN, OKLAHOMA 73536 DATE: 01-22-03 REVISED DATE 04-07-99

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

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CHEMICAL CODE: LOSURF-300 NONIONIC SURFACTANT - HAL-TANK PART NUMBER: 516001790
                         APPLICATION: NONEMULSIFIER
PKG QTY: 330 GALLON TANK
SERVICE USED: STIMULATION
PERCENT
                                           TLV
                                                    PEL
                                    31-60 % 400 PPM
ISOPROPANOL
                                                   400 PPM
                                                   100 PPM
AROMATIC SOLVENT
                                    11-30 % 100 PPM
                                    TRACE % 20 PPM 1-10 % 10 PPM
PROPYLENE OXIDE
                                                    20 PPM
NAPHTHALENE
                                                    10 PPM
          * * * * * SECTION III - PHYSICAL DATA * * * * * * * * * * * * * * *
* * * * * *
        PROPERTY
                                       MEASUREMENT
              AMBER LIOUID
APPEARANCE
                           SOLVENT
SPECIFIC GRAVITY (H2O=1)
                            .910
                                 LB/GAL
BULK DENSITY
                            7.59
                           NOT DETERMINED
SOLUBILITY IN WATER AT
20 DEG C. GMS/100ML H20
                           DISPERSES
BIODEGRADABILITY
                           N/D
PERCENT VOLATILES
                            46-50
EVAPORATION RATE (BUTYL ACETATE=1) N/D
VAPOR DENSITY
                           N/D
VAPOR PRESSURE (MMHG)
                           33.00
BOILING POINT (760 MMHG)
                           N/D
POUR POINT
                           N/D
FREEZE POINT
                           N/D
SOLUBILITY IN SEAWATER
                           NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED
NFPA(704) RATING:
                                        SPECIAL NONE
           FLAMMABILITY 4 REACTIVITY 0
  HEALTH 1
                                         17 C FLASH MTHD PMCC
                                 63 F /
FLASH POINT
AUTOIGNITION TEMPERATURE
                                  ND
                                          ND
FLAMMABLE LIMITS (% BY VOLUME)
                            LOWER N/D
                                             UPPER
                                                     N/D
EXTINGUISHING MEDIA:
  USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.
SPECIAL FIRE FIGHTING PROCEDURES:
  USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.
  FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING
  APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
  MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES. FIGHT FIRE FROM A SAFE DISTANCE
PN: 516001790
                                                        PAGE 2
  AND FROM A PROTECTED LOCATION. HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED
  CONTAINERS, SPREADING THE FIRE AND INCREASING THE RISK OF BURNS AND
  INJURIES.
  INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON
  MONOXIDE AND NITROGEN OXIDES.
CALIFORNIA PROPOSITION 65:
PRODUCT OR PRODUCT COMPONENTS ARE REGULATED UNDER CALIF. PROPOSITION 65.
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CARCINOGENIC DETERMINATION:

· La j

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO: "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: AQU TLM96: 3.3-10 PPM(BROWN SHRIMP)

PRODUCT TLV: NOT ESTABLISHED

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

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EVE.

. . . .

MAY CAUSE EYE IRRITATION.

SKIN:

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

INHALATION:

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

VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION.

INGESTION:

ASPIRATION INTO LUNGS BY INGESTION OR VOMITING, MAY CAUSE CHEMICAL PNEUMONITIS RESULTING IN EDEMA AND HEMORRAGE AND MAY BE FATAL. SYMPTOMS INCLUDE INCREASED RESPIRATORY RATE AND BLUISH DISCOLORATION OF SKIN. COUGHING AND GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION.

CHRONIC EFFECTS:

CHRONIC OVEREXPOSURE MAY CAUSE LIVER AND KIDNEY DISORDERS.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS. BREATHING OF VAPOR AND/OR MISTS MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

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

EYE:

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

SKIN:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

INHALATION:

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

INGESTION:

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

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

STABILITY: STABLE

PN: 516001790 PAGE 3

CONDITIONS TO AVOID:

HEAT, SPARKS AND OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE AND/OR CARBON DIOXIDE.

HAZARD POLYMERIZATION: WON"T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE. REMOVE IGNITION SOURCES. CONTAIN AND ABSORB SPILL WITH SAND OR OTHER INERT MATERIAL. SCOOP OR SWEEP UP USING NON-SPARKING TOOLS. IN ENCLOSED AREAS, WEAR SELF-CONTAINED BREATHING APPARATUS. WASTE DISPOSAL METHOD: GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE. * * * * * * * * * * SECTION VIII - SPECIAL PROTECTION INFORMATION * * * * * * * RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT): ORGANIC VAPOR CARTRIDGE RESPIRATOR WITH A FULL FACEPIECE. VENTILATION: USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION. LOCAL EXHAUST VENTILATION MUST BE DESIGNED FOR EXPLOSIVE ATMOSPHERES (NEC CLASS I EQUIPMENT). PROTECTIVE GLOVES: IMPERVIOUS RUBBER GLOVES. EYE PROTECTION: GOGGLES AND/OR FACE SHIELD. OTHER PROTECTIVE EQUIPMENT: RUBBER APRON TO PREVENT DIRECT SKIN CONTACT. PRECAUTIONARY LABELING LOSURF-300 NONIONIC SURFACTANT - HAL-TANK516.001790 WARNING! MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE EYE IRRITATION. MAY CAUSE DEFATTING OF SKIN WHICH MAY LEAD TO IRRITATION OR DERMATITIS. FLAMMABLE! FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII. OTHER HANDLING AND STORAGE CONDITIONS: STORE AWAY FROM OXIDIZERS. KEEP FROM HEAT, SPARKS, AND OPEN FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AVOID BREATHING VAPORS. CONTAINER DISPOSITION: EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING LANDFILL OPERATOR'S AUTHORIZATION. DOT SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. - 3 - UN1993 - II (CONTAINS ISOPROPANOL)

PN: 516001790 PAGE 4

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

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION FIRE: Y PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

- B. EPA CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY) N/A
- C. EPA SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)
 PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS
- D. EPA SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

| ISOPROPANOL | 67-63-0 | 31-60 % |
|-----------------|---------|---------|
| PROPYLENE OXIDE | 75-56-9 | TRACE % |
| NAPHTHALENE | 91-20-3 | 1-10 % |

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

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

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

IGNITABILITY

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

PCL XL error

e + . •

| Warr | ing: | Courier | substituted | for | CourierPS |
|------|-------|-----------|-------------|-----|-----------|
| Warr | ning: | Courier | substituted | for | CourierPS |
| Warr | ning: | Courier | substituted | for | CourierPS |
| Warr | ning: | Courier | substituted | for | CourierPS |
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| Warr | ning: | Courier | substituted | for | CourierPS |
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| Warr | ning: | Courier | substituted | for | CourierPS |
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| Warr | ning: | Courier | substituted | for | CourierPS |
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| Warr | ning: | Courier | substituted | for | CourierPS |
| Warr | ning: | Courier | substituted | for | CourierPS |
| Warr | ning: | Courier | substituted | for | CourierPS |

istrict I - (505) 393-6161 O. Box 1980 obbs, NM 88241-1980 istrict II - (505) 748-1283 I S. First tesia, NM 88210 'trict III - (505) 334-6178 Rio Brazos Road ...c, NM 87410 istrict 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 I Copy to appropriate District Office

Env. JN: 92132

| REQUEST FOR | ADDDOVAL | TO ACCEPT | SOLID WASTE |
|--------------|----------|-----------|--------------|
| HEUDES I FUH | APPROVAL | IU AUGEPT | SULID WAS IE |

| RCRA Exempt: Non-Exempt: | 4. Generator Hall buton E.S. |
|--|--|
| Verbal Approval Received: Yes 🔲 No 🛂 | 5. Originating Site Hain kind |
| 2. Management Facility Destination Facility Landfarm #2 | 6. Transporter E DUIRO Teal |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401 | 8. State NEW Alaxaño |
| 7. Location of Material (Street Address or ULSTR) | 4109 E Main 87
Formington DM 87401 |
| 9. Circle One: | O |
| A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. | empanied by necessary chemical analysis to |
| All transporters must certify the wastes delivered are only those consigned | for transport. |
| BRIEF DESCRIPTION OF MATERIAL: | , |
| Continuation of work boy Solid | 2 |
| TCLP (6-3-02) Filedu/ pro | 2003 2001 2002 2003 2001 2002 |
| Estimated volume ———————————————————————————————————— | cy |
| SIGNATURE: Harlan M. Brown TITLE: Landfarm Ma Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE | DATE: 12.30.02 EPHONE NO. 505-632-0615 |
| (This space for State Use) | |
| APPROVED BY: Deny teent TITLE: Envir | 0/Eng DATE: 1/28/03 |
| APPROVED BY: Manty Thy. TITLE: Environ | mulal Geology St DATE: 1/30/03 |



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIG BRAZOS ROAD AZYEC, NEW MEXICO 87410 (508) 334-6170 Fex (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: | 2. Destination Name: |
|---|---|
| Helliburton Energy Services | Envirotech Soil Remediation Facility |
| 1,4109 E Main | Landfarm #2 |
| Harming Tou / Wh | Hilltop, New Mexico |
| Harming Tow WM 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): |
| 200 | |
| SAA | Solid Stablel, Zation Pall Fasts. de yard |
| Attach list of originating sites as appropriate | rasiside yeard |
| 4. Source and Description of Waste | |
| Continuation of Wash Day Sold | |
| Wasn tall sold | 5 |
| | |
| |] |
| | |
| 1, Dean Krause TTT (Print Name) | |
| 1, Dean March | representative for: |
| (Print Name) | do hereby certify that, |
| according to the Resource Conservation and Recover | Act (RCRA) and Environmental Protection Agency's July, |
| 1988, regulatory determination, the above described v | vaste is: (Check appropriate classification) |
| | |
| NOM EVEN | DT silfield weaks which is now to conduct to the conduction of |
| EXEMPT oilfield waste NON-EXEM | PT oilfield waste which is non-hazardous by characteristic |
| EXEMPT oilfield waste NON-EXEM analysis or | PT oilfield waste which is non-hazardous by characteristic by product identification |
| EXEMPT oilfield waste NON-EXEM analysis or and that nothing has been added to the exempt or nor | • |
| and that nothing has been added to the exempt or nor | -exempt non-hazardous waste defined above. |
| and that nothing has been added to the exempt or nor | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information | -exempt non-hazardous waste defined above. |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentat MSDS Information RCRA Hazardous Waste Analysis | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): Other (description): |
| For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of N | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): Other (description): |
| For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of N | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): Other (description): |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of Nto 20 NMAC 3.1 subpart 1403.C and D. | -exempt non-hazardous waste defined above. ion is attached (check appropriate items): Other (description): aturally Occurring Radioactive Material (NORM) pursuant |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of Nto 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature): | ion is attached (check appropriate items): Other (description): aturally Occurring Radioactive Material (NORM) pursuant |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of Nto 20 NMAC 3.1 subpart 1403.C and D. | ion is attached (check appropriate items): Other (description): aturally Occurring Radioactive Material (NORM) pursuant |
| For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of Nto 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature): | ion is attached (check appropriate items): Other (description): aturally Occurring Radioactive Material (NORM) pursuant |
| and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of Nto 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature): | ion is attached (check appropriate items): Other (description): aturally Occurring Radioactive Material (NORM) pursuant |



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 6/3/02

Printed Name Mayle DKr

Title / Agency

Surv Material / Hall, burTon

Address

Hall but Ton Energy Sorve

410GEMOIN Farmington

Signature

Marled La Tur

Date

17/30/02

District I - (505) 393-6161
P. O. Box 1940
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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 4/18/95

> Submit Original Plus 1 Copy to appropriate District Office

95026

| REQUEST FOR APPROVAL TO | ACCEPT SOLID | WASTE |
|-------------------------|--------------|-------|
|-------------------------|--------------|-------|

| 1. RCRA Exempt: Non-Exempt: 💢 | 4. Generator B) SUUNCUS |
|---|--|
| Verbal Approval Received: Yes No X | 5. Originating Site Sludge Put |
| 2. Management Facility Destination Facility Sandjarn # > | 6. Transporter TBC |
| 3. Address of Facility Operator 5796 US HWY 64 87401 | 8. State M |
| 7. Location of Material (Street Address or ULSTR) | 3250 SouthSide River Road
Farminaton NM 87401 |
| 9. Circle One: | J , |
| A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned. | ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by |
| BRIEF DESCRIPTION OF MATERIAL: | |
| Wash bay solids Continuation TCLP dated 3115102 - Reaf | irmation attached. |
| Estimated Volume cy Known Volume (to be entered by the op | erator at the end of the haul) ————— cy |
| SIGNATURE: MARICA R. Jackson TITLE: ENVIRON | DATE: 13103 |
| Waste Management Facility Authorized Agent TYPE OR PRINT NAME: LANA PLANA (LICKSON) TEL | EPHONE NO. (505) 632-0615 |
| APPROVED BY: Mata 1882. TITLE: En uix | no/Engr DATE: 1/28/03 |
| , #6 | |



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOB ROAD AZYEC, NEW MEXICO 67410 (605) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| · * | |
|--|---|
| 1. Generator Name and Address: B) Structor 3250 South Sidl Rwer Road Farmington, NM 87401 | 2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico |
| 3. Originating Site (name): Wash Day | Location of the Waste (Street address &/or ULSTR): |
| 4. Source and Description of Waste Wash Day Solids Con | tinuation. |
| 1988, regulatory determination, the above described v | |
| analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody | |
| This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D. | laturally Occurring Radioactive Material (NORM) pursuant |
| Name (Original Signature): Title: Roduct Supervisor Date: 1-3-03 | |
| | |

 JAN.03'2003 07:41 RECEIVED FROM:
P12 EVEWINGLON

5056321865 #1426-002 992525909 61:80 8007.80°NYr



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

3/15/02

Printed Name

Title / Agency

Address

3250 Southside River

Road Farminator

Signature

-3-03

Date

5053275766

#1427 P.003/003

JAN.03'2003 07:41 RECEIVED FROM: 5056321865

BIS FARMINGTON

JAN. 03'2003 08:19 5053275766



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

| Client: | BJ Services | Project #: | 95026-001 |
|--------------------|-----------------|------------------|-------------|
| Sample ID: | Wash Bay Sludge | Date Reported: | 03-19-02 |
| Laboratory Number: | 22302 | Date Sampled: | 03-15-02 |
| Chain of Custody: | 9853 | Date Received: | 03-15-02 |
| Sample Matrix: | TCLP Extract | Date Analyzed: | 03-19-02 |
| Preservative: | Cool | Date Extracted: | 03-18-02 |
| 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 | 0.440 | 0.001 | 100 |
| Cadmium | ND | 0.001 | 1.0 |
| Chromium | 0.001 | 0.001 | 5.0 |
| Lead | 0.001 | 0.001 | 5.0 |
| Mercury | ND . | 0.001 | 0.2 |
| Selenium | ND | 0.001 | 1.0 |
| Silver | ND | 0.001 | 5.0 |

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3250 Southside River Rd., Farmington, NM 87401.

Analyst

Review



EPA METHOD 8040 PHENOLS

| | | • | |
|--------------------|-----------------|---------------------|-----------|
| Client: | BJ Services | Project #: | 95026-001 |
| Sample ID: | Wash Bay Sludge | Date Reported: | 03-21-02 |
| Laboratory Number: | 22302 | Date Sampled: | 03-15-02 |
| Chain of Custody: | 9853 | Date Received: | 03-15-02 |
| Sample Matrix: | TCLP Extract | Date Extracted: | 03-18-02 |
| Preservative: | Cool | Date Analyzed: | 03-21-02 |
| Condition: | Cool & Intact | Analysis Requested: | TCLP |

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

3250 Southside River Rd., Farmington, NM 87401.

Analyst



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

| • | | | |
|--------------------|-----------------|---------------------|-----------|
| Client: | BJ Services | Project #: | 95026-001 |
| Sample ID: | Wash Bay Sludge | Date Reported: | 03-20-02 |
| Laboratory Number: | 22302 | Date Sampled: | 03-15-02 |
| Chain of Custody: | 9853 | Date Received: | 03-15-02 |
| Sample Matrix: | TCLP Extract | Date Extracted: | 03-18-02 |
| Preservative: | Cool | Date Analyzed: | 03-20-02 |
| Condition: | Cool & Intact | Analysis Requested: | TCLP |

| | | Detection | Regulatory | |
|----------------------|---------------|-----------|------------|--|
| · | Concentration | Limit | Limits | |
| Parameter | (mg/L) | (mg/L) | (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 |
|---------------------------|----------------------|------------------|
| | Fluorobenzene | 100% |
| | 1,4-difluorobenzene | 100% |
| | 4-bromochlorobenzene | 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:

3250 Southside River Road, Farmington, NM 87401.

Analyst C. Oglinson

Mristin of Wallers
Review



SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

BJ Services

Project #:

95026-001

Sample ID:

Wash Bay Sludge

Date Reported:

03-19-02

Lab ID#:

22302

Sample Matrix:

Date Sampled:

03-15-02

Sludge

Date Received:

03-15-02

Preservative:

Cool

Date Analyzed:

03-18-02

Condition:

Cool and Intact

Chain of Custody:

9853

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

pH = 7.47

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:

3250 Southside River Road, Farmington, NM 87401.



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

| Client: | BJ Services | Project #: | 95026-001 |
|--------------------|-----------------|---------------------|-----------|
| Sample ID: | Wash Bay Sludge | Date Reported: | 03-21-02 |
| Laboratory Number: | 22302 | Date Sampled: | 03-15-02 |
| Chain of Custody: | 9853 | Date Received: | 03-15-02 |
| Sample Matrix: | TCLP Extract | Date Extracted: | 03-18-02 |
| Preservative: | Cool | Date Analyzed: | 03-21-02 |
| Condition: | Cool and Intact | Analysis Requested: | TCLP |
| | | | |

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

ND - Parameter not detected at the stated detection limit.

| QA/QC-Acceptance Criteria | Parameter | Percent Recovery |
|---------------------------|-----------|------------------|
| | | |

2-fluorobiphenyl

99%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

3250 Southside River Rd., Farmington, NM 87401.

Analyst P. Oglin

Review Maeters



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

| Client: | QA/QC | Project #: | N/A |
|--------------------|------------------|---------------------|----------|
| Sample ID: | Laboratory Blank | Date Reported: | 03-20-02 |
| Laboratory Number: | 03-20-TCV | Date Sampled: | N/A |
| Sample Matrix: | Water | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 03-20-02 |
| Condition: | N/A | Analysis Requested: | TCLP |

| | | Detection | Regulatory |
|----------------------|---------------|-----------|------------|
| | Concentration | Limit | Limits |
| Parameter | (mg/L) | (mg/L) | (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 |
|---------------------------|----------------------|------------------|
| | Fluorobenzene | 100% |
| | 1,4-difluorobenzene | 100% |
| | 4-bromochlorobenzene | 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 22302.

Analyst C. Ceferra

Aristin of Walter



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

| Client: | QA/QC | Project #: | N/A |
|--------------------|--------------|---------------------|----------|
| Sample ID: | Method Blank | Date Reported: | 03-20-02 |
| Laboratory Number: | 03-18-TCV | Date Sampled: | N/A |
| Sample Matrix: | TCLP Extract | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 03-20-02 |
| Condition: | N/A | Date Extracted: | 03-18-02 |
| | | Analysis Requested: | TCLP |

| : | | Detection | Regulatory |
|----------------------|---------------|-----------|------------|
| | Concentration | Limit | Limits |
| Parameter | (mg/L) | (mg/L) | (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 |
|---------------------------|----------------------|------------------|
| | Fluorobenzene | 99% |
| | 1,4-difluorobenzene | 98% |
| | 4-bromochlorobenzene | 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 22302.

Analyst C. Que

Mister of Wanters Review



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

| Client: | QA/QC | Project #: | N/A |
|---------------------|------------------|-----------------|----------|
| Sample ID: | Matrix Duplicate | Date Reported: | 03-20-02 |
| Laboratory Number: | 22302 | Date Sampled: | N/A |
| Sample Matrix: | TCLP Extract | Date Received: | N/A |
| Analysis Requested: | TCLP | Date Analyzed: | 03-20-02 |
| Condition: | N/A | Date Extracted: | 03-18-02 |

| | | Duplicate | | |
|----------------------|--------|-----------|-----------|------------|
| · | Sample | Sample | Detection | |
| | Result | Result | Limits | Percent |
| Parameter | (mg/L) | (mg/L) | (mg/L) | 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 22302.

Apalyst C. Cylins

Mister m Walters



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

Client: Sample ID:

Matrix Spike

Project #: Date Reported: N/A

Laboratory Number:

22302 **TCLP Extract**

QA/QC

03-20-02 Date Sampled:

N/A N/A

Sample Matrix: Analysis Requested:

Condition:

TCLP N/A

Date Analyzed: Date Extracted:

Date Received:

03-20-02 03-18-02

| | Spiked | | | | | SW-846 |
|----------------------|--------|--------|--------|--------|----------|------------------|
| | Sample | Spike | Sample | Det. | | % Rec.
Accept |
| | Result | Added | Result | Limit | Percent | |
| Parameter | (mg/L) | (mg/L) | (mg/L) | (mg/L) | Recovery | 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 | 0.0490 | 0.0001 | 98% | 47-132 |
| Chloroform | ND | 0.050 | 0.0500 | 0.0001 | 100% | 49-133 |
| Carbon Tetrachloride | ND | 0.050 | 0.0490 | 0.0001 | 98% | 43-143 |
| Benzene | ND | 0.050 | 0.0495 | 0.0001 | 99% | 39-150 |
| 1,2-Dichloroethane | ND | 0.050 | 0.0490 | 0.0001 | 98% | 51-147 |
| Trichloroethene | ND | 0.050 | 0.0495 | 0.0003 | 99% | 35-146 |
| Tetrachloroethene | ND | 0.050 | 0.0495 | 0.0005 | 99% | 26-162 |
| Chlorobenzene | NĎ | 0.050 | 0.0495 | 0.0003 | 99% | 38-150 |
| 1,4-Dichlorobenzene | ND | 0.050 | 0.0495 | 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 22302.



EPA METHOD 8040 PHENOLS Quality Assurance Report

Laboratory Blank

| Client: | QA/QC | Project #: | N/A |
|--------------------|------------------|---------------------|----------|
| Sample ID: | Laboratory Blank | Date Reported: | 03-21-02 |
| Laboratory Number: | 03-21-TCA | Date Sampled: | N/A |
| Sample Matrix: | 2-Propanol | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 03-21-02 |
| Condition: | N/A | Analysis Requested: | TCLP |

| Analytical Results | | Detection | Regulatory |
|-----------------------|---------------|-----------|------------|
| | Concentration | Limit | Limit |
| Parameter | (mg/L) | (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 22302.

Analyst



EPA METHOD 8040 PHENOLS Quality Assurance Report

| Client: | QA/QC | Project #: | N/A |
|--------------------|---------------|---------------------|------------|
| Sample ID: | Method Blank | Date Reported: | 03-21-02 |
| Laboratory Number: | 03-18-TCA | Date Sampled: | N/A |
| Sample Matrix: | TCLP Extract | Date Received: | N/A |
| Preservative: | Cool | Date Extracted: | 03-18-02 |
| Condition: | Cool & Intact | Date Analyzed: | ` 03-21-02 |
| | | 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 22302.

Analyst C. Charles



EPA METHOD 8040 PHENOLS Quality Assurance Report

| | | · · | |
|--------------------|------------------|---------------------|----------|
| Client: | QA/QC | Project #: | N/A |
| Sample ID: | Matrix Duplicate | Date Reported: | 03-21-02 |
| Laboratory Number: | 22302 | Date Sampled: | N/A |
| Sample Matrix: | TCLP Extract | Date Received: | N/A |
| Preservative: | Cool | Date Extracted: | 03-18-02 |
| Condition: | Cool & Intact | Date Analyzed: | 03-21-02 |
| | | 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 22302.

Analyst C. Opherson



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

| Client: | QA/QC | Project #: | N/A |
|--------------------|------------------|---------------------|----------|
| Sample ID: | Laboratory Blank | Date Reported: | 03-21-02 |
| Laboratory Number: | 03-21-TBN | Date Sampled: | N/A |
| Sample Matrix: | Hexane | Date Received: | N/A |
| Preservative: | N/A | Date Extracted: | N/A |
| Condition: | N/A | Date Analyzed: | 03-21-02 |
| • | | Analysis Requested: | TCLP |

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

ND - Parameter not detected at the stated detection limit.

| QA/QC Acceptance Criteria | Parameter | Percent Recovery |
|---------------------------|-----------|------------------|
| | | |

2-fluorobiphenyl

96%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for sample 22302.

Den C. Quin

Ahristen m Walters Review



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

| Client: | QA/QC | Project #: | N/A |
|--------------------|-----------------|---------------------|----------|
| Sample ID: | Method Blank | Date Reported: | 03-21-02 |
| Laboratory Number: | 03-18-TBN | Date Sampled: | N/A |
| Sample Matrix: | TCLP Extract | Date Received: | N/A |
| Preservative: | Cool | Date Extracted: | 03-18-02 |
| Condition: | Cool and Intact | Date Analyzed: | 03-21-02 |
| | • | Analysis Requested: | TCLP |

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for sample 22302.

Analyst C. Que

Abrista m Wallers
Review



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

| Client: | QA/QC | Project #: | N/A |
|--------------------|------------------|---------------------|----------|
| Sample ID: | Matrix Duplicate | Date Reported: | 03-21-02 |
| Laboratory Number: | 22302 | Date Sampled: | N/A |
| Sample Matrix: | TCLP Extract | Date Received: | N/A |
| Preservative: | N/A | Date Extracted: | 03-18-02 |
| Condition: | N/A | Date Analyzed: | 03-21-02 |
| | | 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 22302.

Den C. Officer



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

| Client: | QA/QC | Project #: | N/A |
|---------------------|-----------------|-----------------|----------|
| Sample ID: | 03-19-TCM QA/QC | Date Reported: | 03-19-02 |
| Laboratory Number: | 22302 | Date Sampled: | N/A |
| Sample Matrix: | TCLP Extract | Date Received: | N/A |
| Analysis Requested: | TCLP Metals | Date Analyzed: | 03-19-02 |
| Condition: | N/A | Date Extracted: | N/A |

| Blank & Duplicate Conc. (mg/L) | Instrument
Blank | Method
Blank | Detection
Limit | Sample | Duplicate | %
Difference | Acceptance
Range |
|--------------------------------|---------------------|-----------------|--------------------|--------|-----------|-----------------|---------------------|
| Arsenic | ND | ND | 0.001 | ND | ND | 0.0% | 0% - 30% |
| Barium | ND | ND | 0.001 | 0.440 | 0.437 | 0.7% | 0% - 30% |
| Cadmium | ND | ND . | 0.001 | ND | ND | 0.0% | 0% - 30% |
| Chromium | ND | ND | 0.001 | 0.001 | 0.001 | 0.0% | 0% - 30% |
| Lead | ND | ND | 0.001 | 0.001 | 0.001 | 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 | ND⁴ | 0.001 | ND | ND | 0.0% | 0% - 30% |

| Spike | Spike | Sample | Spiked | Percent | Acceptance: |
|--------------|-------|--|--------|----------|-------------|
| Conc. (mg/L) | Added | and the same state of the same | Sample | Recovery | Range |
| Arsenic | 0.500 | ND | 0.498 | 99.6% | 80% - 120% |
| Barium | 0.500 | 0.440 | 0.938 | 99.8% | 80% - 120% |
| Cadmium | 0.500 | ND | 0.499 | 99.8% | 80% - 120% |
| Chromium | 0.500 | 0.001 | 0.500 | 99.8% | 80% - 120% |
| Lead | 0.500 | 0.001 | 0.499 | 99.6% | 80% - 120% |
| Mercury | 0.050 | ND | 0.049 | 98.0% | 80% - 120% |
| Selenium | 0.500 | ND | 0.497 | 99.4% | 80% - 120% |
| Silver | 0.500 | ND | 0.499 | 99.8% | 80% - 120% |

ND - Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 22302.

Analyst

Review Mustum Walter

CHAIN OF CUSTODY RECORD

| Client / Project Name | - | Project Ocetion | | | | | |
|--|--------------------|---|--|---|-----------------------|--|----------------|
| BJ Sevolices | | 3250 South side River
Formitte ton Nat | THE RIVER RD | | ANALYSIS / PARAMETERS | METERS | |
| Sampler: | | Client No. | | () ∋
s. | | | Remarks |
| HARLAND W. Brown | 73 | 950 | 95026-001 | o. of aliner | | | |
| Sample No./ Sample Identification Date | ole Sample
Time | Lab Number | Sample
Matrix | | | | |
| Wash Bay Studya 3.15.02 | 02 8:35 | 22302 | Studge | 7 | | | |
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| | | | , | | | | |
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| | | | | | | | |
| | | | | | | | |
| Relinquished by: (Signature) | (| | | Received by: (Signature) | , | | Date Time |
| How Land 18 Jan | | O | 03.15.02 9:12 | hist of | Veetro | (3) | 3-15-02 9:15 |
| Relinquished by: (Signature) | | | Recei | Received by: (Signature) | | | |
| Relinquished by: (Signature) | | | Recei | Received by: (Signature) | | | |
| | | | ENVIROTECH INC | SH IS | | Sample | Sample Receipt |
| | | | では、 一個の一個の一個の一個の一個の一個の一個の一個の一個の一個の一個の一個の一個の一 | THE RESERVE TO SERVE THE PARTY OF THE PARTY | | | Y N N/A |
| | | | 5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615 | nway 64
lexico 87401
0615 | | Received Intact
Cool - Ice/Blue Ice | 7 |
| | | | | | | | |

istrict I - (505) 393-6161 O. Box 1980 obbs, NM 88241-1980 istrict II - (505) 748-1283 .1 S. First tesia, NM 88210 trict III - (505) 334-6178 Rio Brazos Road ...c, NM 87410 strict IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 01038-004

| REQUEST FOR APPROVAL TO ACCEPT | SOLID WASTE |
|---|---|
| 1. RCRA Exempt: Non-Exempt: | 4. Generator CSI |
| Verbal Approval Received: Yes ☐ No ☑ | 5. Originating Site NEBU - 438 |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2 | 6. Transporter Paul & Sons |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401 | 8. State Haw Maraico |
| 7. Location of Material (Street Address or ULSTR) | A" Sec 18, T31N, R6W |
| 9. <u>Circle One</u> : | SAN Juan County, NOV. |
| A. All requests for approval to accept oilfield exempt wastes will be accept an exempt; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accept proved the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigner. | ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by |
| BRIEF DESCRIPTION OF MATERIAL: | · |
| Lube sil contaminated soil | DIST. 3 |
| Estimated Volume cy Known Volume (to be entered by the open | |
| SIGNATURE: TITLE: Landfarm M Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL | EPHONE NO. 505-632-0615 |
| APPROVED BY: Morting 3th. TITLE: Environment | DATE: 01/02/03 |



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION A2TEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO BY/10 (200) 234-8178 FAE (203)234-0170

GARY E. JOHNSON

JENNIPER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| The same of the sa | |
|--|--|
| 1. Generator Name and Address: | 2. Destination Name: |
| Compressor systems INC. | ENUTROTECH INC. |
| P.O. BIX 1886 | 5796 US. Hwy 60, Farmington, NA |
| Bloomfield n.M. 87413 | |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR); |
| NEBU 438 (unit # 404408) | 1210' FAK 1245' FEL |
| <u> </u> | Section 18 Township 3/N -R-CW |
| | son Juan county w,M. |
| Attach list of originating sites as appropriate 4. Source and Description of Waste | |
| O Rug suptured on compressor vil | filter which caused oil to |
| spray onto the ground, | , in a series causing on the |
| sprog ento the grand, | · |
| | |
| | |
| - 1 | |
| 1. Johnny Gonzales (Print Name) | rapresentative for: |
| (Print Name) | |
| COMPLESSOR SYSTEMS THE. | do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, |
| 1988, regulatory determination, the above described | |
| | • |
| | MPT oilfield waste which is non-hazardous by characteristic |
| analysis of | r by product identification |
| and that nothing has been added to the exempt or no | on-exempt non-hazardous waste defined above. |
| ALONE POLICE | |
| For NON-EXEMPT waste the following documents MSDS Information | ation is strached (check appropriate items): Other (description): |
| RCRA Hazardous Waste Analysis | Outer (Geodification) |
| 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. | , |
| - A | |
| Name (Original Singersian) | ma cale |
| Name (Original Signature): | maus . |
| Title: Superintendent | |
| · | |
| Date: 12-26-02 | |
| | |
| Ed W491:80 1002 EZ 'KeM | FDM : FAX NO. : |

District 1
1625 M. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Bruzos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised March 17, 1999

PAGE

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

| Release Notification and Corrective Action | | | | | |
|--|---|---|--|--|--|
| · | OPERATOR | Initial Report Final Repor | | | |
| Name of Company Compressor Systems TUC | Contact Justin Welt | er | | | |
| Address P.O. Kox 1886 Bloom Geld n. M B7413 | Telephone No. 350 - 6730 | | | | |
| Facility Name | Facility Type well head | Compression | | | |
| Surface Owner Mineral Owner | | Lease No. NEBU 438 | | | |
| LOCATIO | N OF RELEASE | | | | |
| Unit Letter Section Township Range Feet from the Nort | he outh Line Feet from the Eas | West Line County . | | | |
| 404408 18 T31N CW 12 | 10 / | 245 San Juan | | | |
| NATURI | E OF RELEASE | | | | |
| Type of Release Used Compressor oil Volume of Release 50 sals Volume Recovered | | | | | |
| Source of Release | Date and Hour of Occurrence 12-2 | Date and Hour of Discovery 12-23-02 | | | |
| Was Immediate Notice Given? | If YES, To Whom? 270 | 1M @10Am | | | |
| Yes 🗌 No 🗎 Not Required | Phillip Ray | | | | |
| By Whom? | Date and Hour (21030 A | In | | | |
| Was a Watercourse Reached? | If YES, Volume Impacting the W | | | | |
| Yes No | | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | | |
| If a watercourse was impacted, Describe rully. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Describe Cause of Problem and Remedial Action Taken. | | | | | |
| Ruptured oring on fitter rack | Replaced all filte | YS . | | | |
| capitalize oring on this is acc | - Taproca at Title | i | | | |
| | | | | | |
| Describe Area Affected and Cleanup Action Taken.* | | | | | |
| EAST SIDE OF SICIAL 20' X 18' X'14" deep. Paul & Son's will pick up contaminated soil and will delivered to excipate formington | | | | | |
| exit side of soil and will delivered to avainated a | | | | | |
| CONTAMINATED SOLL DES DOLL, DELLOS | the to expression to | 2 cmington | | | |
| | | | | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger | | | | | |
| public health or the environment. The acceptance of a C-141 report by | he NMOCD marked as "Final Report | "does not relieve the operator of liability | | | |
| should their operations have failed to adequately investigate and remedi | ate contamination that pose a threat to | ground water surface water human health | | | |
| should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other | | | | | |
| federal, state, or local laws and/or regulations. | 1 | ,, | | | |
| | OIL CONSER | RVATION DIVISION | | | |
| | | | | | |
| Signature: | | | | | |
| Printed Name: | Approved by District Supervisor: | | | | |
| Finited Panie. | | | | | |
| Title: | Approval Date: | Expiration Date: | | | |
| Duto: Phone: | Canditions of Approximit | Attached | | | |

envirotechmemo/fax

| to: | Martyre Kieling |
|----------|-------------------------------|
| company: | |
| | 505-476-3462 |
| re: | MSDS for Screw Compressor Oul |
| date: | 1/10/03 |
| pages: | (including cover page) |
| project: | CSI-NEBU 438 |
| | |

comments... Martyne-Here's the full MSDS you requested. Hope you have a great day!

from the desk of.

envirotech inc. 5796 us highway 64 farmington, n. m. 87401 505 632 0615 505 632 1865 fax





Material Safety Data Sheet

Page 1 of 7

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON HDAX NG Screw Compressor Oil

PRODUCT NUMBER(S): CPS255204

SYNONYM: CHEVRON HDAX NG Screw Compressor Oil ISO 150 CHEVRON HDAX NG Screw Compressor Oil ISO 68

COMPANY IDENTIFICATION

EMERGENCY TELEPHONE NUMBERS

Chevron Products Company Global Lubricants 555 Market St. Room 803 San Francisco, CA 94105-2870

HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International) TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887 ' Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500 Environmental, Safety, & Health Info: (415) 894-0703

Product Information: (800) 582-3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON HDAX NG Screw Compressor 011

CONTAINING

COMPONENTS THUOMA LIMIT/QTY AGENCY/TYPE

HYDROTREATED DIST., HVY PARA

Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

CAS64742547 > 80.00% 5 mg/m3 (mist) ACGIH TWA

10 mg/m3 (mist) ACGIH STEL 5 mg/m3 (mist) OSHA PEL

ADDITIVES

< 20.00%

COMPOSITION COMMENT:

all the components of this material are on the Toxic Substances Control

Revision Number: 0 Revision Date: 10/25/97 MSDS Number: 006852 CHEVRON HDAX NG Screw Compressor Oil

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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.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

RYE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil that may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of airborne levels above the recommended exposure limit.

4. FIRST AID MEASURES

EYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse. INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person. INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or

Revision Number: 0

Revision Date: 10/25/97

MSDS Number: 006852

FILE No.636 01/09 '03 PM 02:58 ID:COMPRESSOR SYSTEMS INC. FAX:15056328985

CHEVRON HOAK NG Screw Compressor Oil

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combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 419-446F (215-230C) 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:

This material will burn although it is not easily ignited.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor and may produce oxides of nitrogen and phosphorus. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3887 International Collect Calls Accepted

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

Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder. drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing

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CHEVRON HDAX NG Screw Compressor Oil

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possible, wear safety glasses with side shields as a good safety practice. SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H> RESPIRATORY PROTECTION:

No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Liquid.

:Hq

NDA

VAPOR PRESSURE:

NA ·

VAPOR DENSITY

(AIR=1):

ΝA

BOILING POINT:

NDA

FREEZING POINT:

NDA

MELTING POINT:

NA

SOLUBILITY:

Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY:

NDA

DENSITY:

NDA

EVAPORATION RATE:

NA

VISCOSITY:

61.2 - 135 cst @ 40c (Min.)

PERCENT VOLATILE

(VOL):

NA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

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

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EYE EFFECTS:

The eye irritation hazard is based on data for a similar material.

SKIN EFFECTS:

The skin irritation hazard is based on data for a similar material.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data for a similar material.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data for a similar material.

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).

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE:

This material is not expected to be readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. 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

Revision Number: 0 Revision Date: 10/25/97 MSDS Number: 006852

X-DOS021 (01-89)

15. REGULATORY INFORMATION

SARA 311 CATEGORIES: 1. Immediate (Acute) Health Effects: NO

2. Delayed (Chronic) Health Effects: NO

3. Fire Hazard: NO

4. Sudden Release of Pressure Hazard: NO

5. Reactivity Hazard: No.

REGULATORY LISTS SEARCHED:

| 01=SARA 313 | 11=NJ RTK | 22=TSCA Sect 5(a)(2) |
|-------------------------|-------------------------|----------------------|
| 02=MASS RTK | 12=CERCLA 302.4 | 23=TSCA Sect 6 |
| 03=NTP Carcinogen | 13=MN RTK | 24=TSCA Sect 12(b) |
| 04-CA Prop 65-Carcin | 14=ACGIH TWA | 25=TSCA Sect 8(a) |
| 05=CA Prop 65-Repro Tox | 15=acgih Stel | 26=TSCA Sect 8(d) |
| 06=IARC Group 1 | 16-ACGIH Calc TLV | 27=TSCA Sect 4(a) |
| 07=IARC Group 2A | 17=OSHA PEL | 28-Canadian WHMIS |
| 08=IARC Group 2B | 18=DOT Marine Pollutant | 29=OSHA CEILING |
| 09=SARA 302/304 . | 19=Chevron TWA | 30=Chevron STEL |
| 10=PA RTK | 20=EPA Carcinogen | |

The following components of this material are found on the regulatory lists indicated.

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC is found on lists: 14,15,17,

EU RISK AND SAFETY STATEMENTS:

May cause long-term adverse effects in the aquatic environment.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0; HMIS RATINGS: Health 1; Flammability 1; Reactivity 0; (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). 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:

This is a new Material Safety Data Sheet

Revision Number: 0 Revision Date: 10/25/97 MSDS Number: 006852

1-10-03; 8:09AM;ENVIROTECH
1-10-03; 8:09AM;ENVIR

CHEVRON HDAX NG Screw Compressor Oil

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PAGE

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value

STEL - Short-term Exposure Limit

RQ - Reportable Quantity

- Ceiling Limit C

Al-5 - Appendix A Categories

NDA - No Data Available

TWA - Time Weighted Average

TPQ - Threshold Planning Quantity

PEL - Permissible Exposure Limit

CAS - Chemical Abstract Service Number

() - Change Has Been Proposed

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

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

*************** THIS IS THE LAST PAGE OF THIS MSDS **********************

Revision Number: 0 Revision Date: 10/25/97 MSDS Number: 006852

rtment

Form C-138 Originated 8/8/95

Submit Original Plus 1 Copy to appropriate

| <u> strict I - (505) 393-6161</u> | New Mexico | | |
|--|---|--------|-------|
| O 50x 1980
obos, NM 88241-1980 | Energy Minerals and Natural Resources | Dep | aı |
| atrict II - (505) 748-1283 | Oil Conservation Division | 1 | |
| 1 S. First | 0040 Court Post of Court | | |
| tesia, NM 88210 | 2040 South Pacheco Street | | |
| trict III - (505) 334-61/78 | | | |
| Rio Brazos Road | | | |
| c, NM 87410 | FILLEN DIV. | nν. | 7 |
| trict IV - (505) 827-7[3] | JAN 2000
FILLENS DN - (505) 827-7131 | 11 V . | J. |
| AND THE STATE OF STREET AND A STREET STREET, AND ASSESSMENT OF THE | | | ~, ** |

| | IV - (505) 827-7(3) ACCUS. DN - | Env. JN: 95007-011 |
|-------|--|--|
| | REQUEST FOR APPROVAL TO ACCEPT | SOLID WASTE |
| 1. | RCRA Exempt: Non-Exempt: | 4. Generator Coastal Chamical |
| , | Verbal Approval Received: Yes No 2 | 5. Originating Site Various Localions |
| 2. | Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2 | 6. Transporter Epuivo tech |
| 3. | Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401 | 8. State Now We expico |
| 7. | Location of Material (Street Address or ULSTR) | 1130 Madison Lone
Farming for Del. |
| 9. | Circle One: | 3 |
| | A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accorded PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned. | empanied by necessary chemical analysis to n of origin. No waste classified hazardous by |
| | EF DESCRIPTION OF MATERIAL: | nor transport. |
| Estir | Soil contourinted with nour lubric and spatts at various Locations Complete list of MSDS provided mated Volume 10 draws cy Known Volume (to be entered by the open | with 7.15.02 Submitted. |
| SIG | NATURE: Waste Management Facility Authorized Agent | |
| TYF | E OR PRINT NAME: Harlan M. Brown TELE | EPHONE NO |
| (TI | nis space for State Use) | |
| AP | PROVED BY: Deny Touth TITLE: Enviro/ | Eng DATE: 01/02/03 |

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-6178 PRK (503)334-6170

JENNIFER A. SALISBURY
CABINET SECRETARY

GARY E. JOHNSON GOVERNOR

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: | 2. Destination Name: | |
|--|---|--|
| Coastal Chemical Co., LLC | Envirotech Soil Remediation Facility | |
| 1130 Madison LN | Landfarm #2 Hilltop, New Mexico | |
| Farminatan WM 87401 | militor, new mearco | |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): | |
| Coastal Chemical Colle | | |
| | Farmington, NM 87401 | |
| Attach list of originating sites as appropriate | | |
| 4. Source and Description of Waste | | |
| Dirt, Motor oil (virgin) pr | cked up From various locations | |
| · | j | |
| | | |
| | | |
| Mike Farni | and the second second | |
| (Print Name) | representative for: | |
| Coastal Chemical Costle | do hereby certify that. | |
| according to the Resource Conservation and Recov | very Act (RCRA) and Environmental Protection Agency's July, | |
| 988, regulatory determination, the above describe | | |
| | | |
| EXEMPT oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification | | |
| | ave and harvedove weeks defined shows | |
| nd that nothing has been added to the exempt or r | non-exempt non-nazardous waste defined above. | |
| or NON-EXEMPT waste the following document | ntation is attached (check appropriate items): | |
| | Other (description): | |
| RCRA Hazardous Waste Analysis | _ , | |
| Chain of Custody | SDS - Provided in previous Submittelis (| |
| | 2D2 - Lisalway in Bit Eding? Organillas? | |
| | | |
| his waste is in compliance with Regulated Levels o | f Naturally Occurring Radioactive Material (NORM) pursuant | |
| o 20 NMAC 3.1 subpart 1403.C and D. | • | |
| | | |
| Name (Original Signature): Thise fac | m | |
| Title: Facility Manager | | |
| Date: 12-26-02 | | |

istrict I - (505) 393-6161 O. Box 1980 obbs, NM 88241-1980 latrict II - (505) 748-1283 1 S. First tesia, NM 88210

-trict III - (505) 334-6178 Rio Brazos Road ...c, NM 87410

strict IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division WOV 2 6 2002

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

Environmental Bureau Oil Conservation Division

RECEIVED

Submit Original Plus I Copy to appropriate District Office

Form C-138

Originated 8/8/95

mortyhe Kieling

Env. JN: 92181

| REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE | | |
|---|---|--|
| 1. RCRA Exempt: Non-Exempt: | 4. Generator Resources | |
| Verbal Approval Received: Yes No 🔀 | 5. Originating Site 4 Corn cos Coup . State | |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2 | 6. Transporter TBL | |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401 | 8. State UTAH-NM. (NAUG) | |
| 7. Location of Material (Street Address or ULSTR) | 5E/4, See 19, T385, RZ4E | |
| 9. <u>Circle One</u>: A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance. B. All requests for approval to accept non-exempt wastes must be accepted a | ompanied by a certification of waste from the ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by | |
| All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: | d for transport. | |
| | NOV 2002 PRECEIVED ON CONS. DIV. DIST. 3 | |
| SIGNATURE: Harlan M. Brown TITLE: Landfarm M. Brown TYPE OR PRINT NAME: Harlan M. Brown TELI | | |
| APPROVED BY: Jahn Jah, TITLE: Environme | | |



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

WOILIVIE HOITAVABEHED JIO ALTEG DISTRICT OFFICE AZTEC, NEW MEXICO 67-10 (946) 334-0170 Par (845)334-6170

GARY E. JOHNSON GOVERNOR

JENNIPER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address:
Western Gas Resources | 2. Destination Name: |
|---|---|
| | Envirotech Inc. Soil Remediation Remediation Facility |
| P.O. BOX70 99 Rd 6500 | Landfarm #2, Hilltop, New Mexico |
| Kirtland, N.M. 87417 | 5796 118 Hur 64 Farmington NM 87401 |
| 3. Originating Site (name): | Location of the Waste (Street address & or ULSTR): |
| 4 CURNERS COMPRESSOR STATE | ion . |
| Alkali CANYOW 17 miles. | EAST of BLANDING UT |
| Attach But of originating sites as appropriete | , |
| 4. Source and Description of Weste | |
| OII STAINTE SOIT +, | Rom Compressor Site |
| | |
| 1, ARLYN Thorson (Print Name) | representative for: |
| Western Gas Promos | do harahu cartify that |
| 1988, regulatory determination, the above described | · |
| EXEMPT cilfield waste X NON-EXEL analysis o | MPT cilfield waste which is non-hazardous by characteristic r by product identification |
| and that nothing has been added to the exempt or no | on-exempt non-hazardous waste defined above. |
| For NON-EXEMPT waste the following documents MSDS Information RCRA Hazerdous Waste Analysis Chain of Custody | ation is attached (check appropriate items):Other (description): |
| This wests is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D. | Naturally Occurring Radioactive Material (NORM) pursuant |
| Name (Original Signature): | |
| Title: Field Supervisor | |
| Date: 12/15/02 | |
| L COO'ON TO CT AON | . OTZOGCCOCT: AT . COONCES . TO . COONCES |



TRACE METAL ANALYSIS

| Client: | Western Gas Resources | Project #: | 92187-001 |
|--------------------|-----------------------|------------------|-------------|
| Sample ID: | Grab | Date Reported: | 10-11-02 |
| Laboratory Number: | 23991 | Date Sampled: | 10-10-02 |
| Chain of Custody: | 10328 | Date Received: | 10-10-02 |
| Sample Matrix: | Soil | Date Analyzed: | 10-11-02 |
| Preservative: | Cool | Date Digested: | 10-10-02 |
| Condition: | Cool & Intact | Analysis Needed: | RCRA Metals |

| Parameter | Concentration
(mg/Kg) | Det.
Limit
(mg/Kg) | Regulatory
Level
(mg/Kg) |
|-----------|--------------------------|--------------------------|--------------------------------|
| | | | |
| Arsenic | 0.006 | 0.001 | 5.0 |
| Barium | 1.21 | 0.001 | 100 |
| Cadmium | 0.001 | 0.001 | 1.0 |
| Chromium | 0.001 | 0.001 | 5.0 |
| Lead | 0.001 | 0.001 | 5.0 |
| Mercury | ND | 0.001 | 0.2 |
| Selenium | 0.002 | 0.001 | 1.0 |
| Silver | ND | 0.001 | 5.0 |

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4 Corners Comp. Station.

Analyst

Review



TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

| Client: | QA/QC | Project #: | N/A |
|---------------------|-------------------|----------------|----------|
| Sample ID: | 10-11-TM QA/QC | Date Reported: | 10-11-02 |
| Laboratory Number: | 23991 | Date Sampled: | N/A |
| Sample Matrix: | Soil | Date Received: | , N/A |
| Analysis Requested: | Total RCRA Metals | Date Analyzed: | 10-11-02 |
| Condition: | N/A | Date Digested: | 10-10-02 |

| Blank & Duplicate
Conc. (mg/Kg) | Instrument
Blank (mg/L) | Method
Blank | Detection
Limit | Sample | Duplicate | %
Diff. | Acceptance
Range |
|------------------------------------|----------------------------|-----------------|--------------------|--------|-----------|------------|---------------------|
| Arsenic | ND | ND | 0.001 | 0.006 | 0.006 | 0.0% | 0% - 30% |
| Barium | ND | ND | 0.001 | 1.21 | 1.23 | 1.7% | 0% - 30% |
| Cadmium | ND | ND | 0.001 | 0.001 | 0.001 | 0.0% | 0% - 30% |
| Chromium | ND | ND | 0.001 | 0.001 | 0.001 | 0.0% | 0% - 30% |
| Lead | ND | ND | 0.001 | 0.001 | 0.001 | 0.0% | 0% - 30% |
| Mercury | ND | ND | 0.001 | ND | ND | 0.0% | 0% - 30% |
| Selenium | ND | ND | 0.001 | 0.002 | 0.002 | 0.0% | 0% - 30% |
| Silver | ЙD | ND | 0.001 | ND | ND | 0.0% | 0% - 30% |

| Spike
Conc. (mg/Kg) | Spike
Added | Sample | Market Control of the Control | Percent
Recovery | Acceptance
Range |
|------------------------|----------------|--------|-------------------------------|---------------------|---------------------|
| Arsenic | 0.500 | 0.006 | 0.505 | 99.8% | 80% - 120% |
| Barium | 0.500 | 1.21 | 1.70 | 99.4% | 80% - 120% |
| Cadmium | 0.500 | 0.001 | 0.500 | 99.8% | 80% - 120% |
| Chromium | 0.500 | 0.001 | 0.501 | 100.0% | 80% - 120% |
| Lead | 0.500 | 0.001 | 0.500 | 99.8% | 80% - 120% |
| Mercury | 0.050 | ND | 0.049 | 98.0% | 80% - 120% |
| Selenium | 0.500 | 0.002 | 0.501 | 99.8% | 80% - 120% |
| Silver | 0.500 | ND | 0.499 | 99.8% | 80% - 120% |

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 23991.

Analyst

Review

CHAIN OF CUSTODY RECORD

| DOXELL GIRS VESOLICES | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 4 Corners | 15 S. A. A. | Ψ , | ANALYSIS / PAKAME I EKS | 2 | | |
|------------------------------|---------------------------------------|------------|--|--------------------------|-------------------------|---------------------|--------|---------------------------------------|
| Arlyn Horsan | | Client No. | 100- | sainers | | Remarks | ırks | |
| Vo./ Sample Ition Date | Sample
Time | Lab Number | Sample
Matrix | | | | | |
| 10.10.02 | 7:15 | 23991 | Se : (| | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| Relinquished by: (Signature) | | | Date Time Receiv | Répeived by: (Signature) | X | | e Time | Z |
| Relinquished by: (Signature) | | | | Received by: (Signature) | | | | |
| Relinquished by: (Signature) | | | Receiv | Received by: (Signature) | | | | |
| | | | EOVIDOTEC | DOTECH IOC | | Sample Receipt | eipt | |
| | | | | | | | Y N/A | |
| | | | 5796 U.S. Highway 64 | nway 64 | Rec | Received Intact | 2 | |
| | | | Farmington, New Mexico 67401
(505) 632-0615 | Jexico 6/401
1615 | Cool | Cool - Ice/Blue Ice | | |

istrict I - (505) 393-6161 O. Box 1980

New Mexico Energy Minerals and Natural Resources Department ECE Viol Conservation Division

Form C-138 Originated 8/8/95

obbs. NM 88241-1980 istrict II - (505) 748-1283 I S. First tesia, NM 88210

2040 South Pacheco Street Santa Fe, New Mexico 87505

(505) 827-7131

Submit Original Plus I Copy to appropriate District Office

...c, NM 87410

Rio Brazos Road

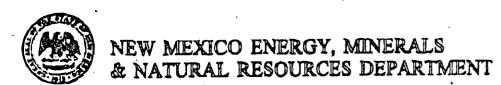
trict III - (505) 334-6178

Istrict IV - (505) 827-7131 OT CONSERVATION

Env. JN: 99043-005

| | The state of the second of the |
|--|--|
| REQUEST FOR APPROVAL TO ACCEPT | SOLID WASTE |
| 1. RCRA Exempt: Non-Exempt: Denny Fount 10.22.02 9:3344 | 4. Generator Harover Compression |
| Verbal Approval Received: Yes 🔀 No 🔲 | 5. Originating Site 6 Nw on CR. 3536 |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2 | 6. Transporter ICU Rocky HTW |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401 | 8. State Du. |
| 7. Location of Material (Street Address or ULSTR) | "A" Suc 9, T30N, RIZW |
| 9. Circle One: | SHOW Juan County, NM. |
| A. All requests for approval to accept oilfield exempt wastes will be acc
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be acc
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. | ompanied by necessary chemical analysis to |
| All transporters must certify the wastes delivered are only those consigne | d for transport. |
| BRIEF DESCRIPTION OF MATERIAL: | |
| Soil contaminated W/ New ANTIFRE | Eze. Tote fall off of tru |
| District de Contractor de Cont | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
| he was gone someone damped p MSDS ATTACHED | socket & Stolether Tote |
| | NOV 2002 NOV 2002 OIL CONS. DIV. DIST. 3 |
| Estimated Volume Cy Known Volume (to be entered by the open | erator at the end of the haul) |
| SIGNATURE: Waste Management Facility Authorized Agent TITLE: Landfarm M | lanager DATE: 10 · Z Z · 6 · Z |
| Harlan M. Brown | EPHONE NO. 505-632-0615 2 |
| | |
| (This space for State Use) | |
| LADROUGE IN PROPERTY TO FEE | 0/F. 015 21/1/1/05 |

TITLE: Soviesum



99043.005

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRACOS ROAD
AZTEC, NEW MEXICO 57410
[506] 334-8178 PAX (505)334-6170

GARY E. JOHNSON

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: HANOVER Compression 4000 Lomas | 2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico |
|---|---|
| FARMINATION, NM 87401 | |
| Farmington NM 8740/ 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): |
| "A" Secq, T30N, RIZW | |
| Saw Juan County, 2) of. | |
| Attach list of originating sites as appropriate | |
| 4. Source and Description of Waste | 120 1 100 |
| Approximately 70 gallows of soil by unknown thiref. The | Antifreeze veleased to
Antifreeze was "new product". |
| County Komo 33 36, .6 m/12 | par me al. |
| | |
| 01 0 10 | |
| 1. Glenn Bondream K
Hanover Compression | representative for: |
| (Print Name) | do horoby cartify that |
| HANDVET Com pression | do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, |
| 1988, regulatory determination, the above described | waste is: (Check appropriate classification) |
| 1 | |
| EXEMPT oilfield waste VON-EXEM | MPT cilfield waste which is non-hazardous by characteristic by product identification |
| and that nothing has been added to the exempt or no | overempt con-hazardous waste defined above. |
| and that nothing has been added to the example of ho | Treatmpt non-riazza dous vidate de inico de bos. |
| For NON-EXEMPT waste the following documenta | ition 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 I to 20 NMAC 3.1 subpart 1403.C and D. | Naturally Occurring Radioactive Material (NORM) pursuant |
| to 20 Mino 6.1 Gampart Victors and an | |
| Chal | |
| Name (Original Signature): | |
| 0 10 01 120 | |
| Title: Support Coordin Atolk | |
| 7/ | |
| Date: 10/22/07 | |
| | |

Material Safety Data Sheet

24-Hour Emergency Telephone Numbers

HEALTH: Chevron Emergency Information Center (800) 231-0623 or (510) 231-0623

TRANSPORTATION: CHEMTREC (800) 424-9300 or (703) 527-3887

Emergency Information Centers are located in the U.S.A. International collect calls accepted.

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

TEXACO TEXCOOL E 100

Product Number(s): CPS227939

Company Identification
ChevronTexaco Global Lubricants
6001 Bollinger Canyon Road

San Ramon, CA 94583

Product Information

Product Information: 800-LUBE-TEK email: lubernsds@chevron.com

SECTION 2 COMPOSITION INFORMATION ON INGREDIENTS 《红 学》 图 图 图 图

| CAS NUMBER | AMOUNT | |
|------------|-----------------------------------|--|
| 107-21-1 | 80 - 94.99 %weight | |
| 111-46-6 | 1 - 4.99 %weight | |
| 7732-18-5 | 1 - 4,99 %weight | |
| 7758-11-4 | 1 - 3.99 %weight | |
| | 107-21-1
111-46-6
7732-18-5 | |

| SECTION'S HAZARDS IDENTIFICATION |
 | , , | |
|----------------------------------|------|-----|------|
| |
 | |
 |

EMERGENCY OVERVIEW

Pink liquid.

- HARMFUL OR FATAL IF SWALLOWED
- CAUSES EYE IRRITATION
- POSSIBLE BIRTH DEFECT HAZARD CONTAINS MATERIAL THAT MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA
- MAY CAUSE DAMAGE TO:
- KIDNEY

IMMEDIATE HEALTH EFFECTS

Eye: Contact with the eyes causes irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

Revision Number: 1 Revision Data: 05/20/2002 1 of 7

TEXACO TEXCOOL E 100 MSDS: 10469

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Toxic; may be harmful or fatal if swallowed.

Inhalation: The vapor or fumes from this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing.

DELAYED OR OTHER HEALTH EFFECTS

Contains material that may be harmful to the developing fetus based on animal data.

Target Organs: Contains material that may cause damage to the following organ(s) following repeated ingestion based on animal data: Kidney

See Section 11 for additional information. Risk depends on duration and level of exposure,

SECTION 4 FIRST AID MEASURES

Eye: Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get medical attention if irritation persists. Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS:

Health: 2

Flammability: 1

Reactivity 0

77

FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland Open Cup) 260 °F (127 °C)

Autoignition: NDA

Flammability (Explosive) Limits (% by volume in air): Lower: NDA Upper: NDA

EXTINGUISHING MEDIA: Dry Chemical, CO2, AFFF Foam or alcohol resistant foam.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. 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: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Phosphorus, Potassium.

SECTION'S ACCIDENTAL RELEASEMEASURES

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TEXACO TEXCOOL E 100 MSDS: 10469 Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Do not get in eyes. Wash thoroughly after handling. Do not breathe vapor or fumes.

General Handling Information: Do not taste or swallow antifreeze or solution. Keep out of the reach of children and animals.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a fiammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106. 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

General Storage Information: Do not store in open or unlabeled containers.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of Ignition. They may explode and cause injury or death. Emply containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION & EXPOSURE CONTROLS/PERSONAL PROTECTION: 11

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Wear eye protection such as safety glasses, chemical goggles, or faceshields if

Revision Number: 1 Revision Date: 05/20/2002 3 of 7

TEXACO TEXCOOL E 100 MSDS: 10469

engineering controls or work practices are not adequate to prevent eye contact.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Natural rubber, Neoprene, Nitrile Rubber, Polyvinyl Chloride (PVC or Vinyl).

Respiratory Protection: Determine if airborne concentrations are below the recommended exposure limits. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material, such as: Air-Purifying Respirator for Organic Vapors, Dusts and Mists.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

| Component | Limit | TWA | STEL | Ceiling | Notation |
|-----------------|-----------|-----|------|-----------|----------|
| Ethylene Glycol | ACGIH TLV | | | 100 mg/m3 | |
| Ethylene Glycol | OSHA PEL | | | 125 mg/m3 | |

| SECTION 9 PHYSICAL AND CHE | MICAL DOODEDTIES. |
 | |
|------------------------------|--------------------|------|--|
| 1 SECTION 9 PRISICAL AND CHE | MICHE LIVEL EMITER | | |
| | | | |

Appearance and Odor: Pink liquid.

pH: 10.2

Vapor Pressure: 0.1 mmHg @ 68 °F

Vapor Density (Air = 1): 2.1 Boiling Point: 228 °F (109 C)

Solubility: Miscible

Freezing Point: -34 °F (-37 C) Specific Gravity: 1.12 - 1.14 Viscosity: 18.7 cSt @ 20 °C

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates,

peroxides, etc.

Hazardous Decomposition Products: Aldehydes (Elevated temperatures)
Hazardous Polymerization: Hazardous polymerization will not occur.

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Revision Number: 1 Revision Date: 05/20/2002 4 of 7

TEXACO TEXCOOL E 100

MSDS: 10469

99%

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult numan. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rate and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

This product contains diethylene glycol (DEG). The estimated oral lethal dose is about 50 cc (1.6 oz) for an adult human. DEG has caused the following effects in laboratory animals: liver abnormalities, kidney damage and blood abnormalities. It has been suggested as a cause of the following effects in humans: liver abnormalities, kidney damage, lung damage and central nervous system damage.

SECTION 12 ECOLOGICAL INFORMATION A SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

ENVIRONMENTAL FATE

This material is expected to be readily biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 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 REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION

UNDER 49 CFR

DOT Hazard Class: NOT APPLICABLE

DOT Identification Number: NOT APPLICABLE

DOT Packing Group: NOT APPLICABLE

Revision Number: 1 Revision Date: 05/20/2002 5 of 7

TEXACO TEXCOOL E 100

MSD8: 10469

99%

176. SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

YES 1. Immediate (Acute) Health Effects: YES Delayed (Chronic) Health Effects: Fire Hazard: NO NO

Sudden Release of Pressure Hazard:

Reactivity Hazard:

NO

505 325 4242

REGULATORY LISTS SEARCHED:

4_I1=IARC Group 1

12=TSCA Section 8(a) PAIR 21=TSCA Section 5(a)

4. IZA=IARC Group 2A

13=TSCA Section 8(d) 25≃CAA Section 112 HAPs 26=CWA Section 311 15=SARA Section 313

4_128=IARC Group 28 05=NTP Carcinogen

28=CWA Section 307 16=CA Proposition 65

06=OSHA Carcinogen

17=MA RTK 30=RCRA Waste P-List 18=NJ RTK 31=RCRA Waste U-List

10=TSCA Section 4

09=TSCA 12(b)

19=DOT Marine Pollulant

32=RCRA Appendix VIII

11=TSCA Section 8(a) CAIR

20=PA RTK

The following companents of this material are found on the regulatory lists indicated.

Diethylene alycol

25

Ethylene Glycol

15, 17, 18, 20, 25

CERCL A REPORTABLE QUANTITIES (RO)/SARA 302 THRESHOLD PLANNING QUANTITIES (TPO).

| Component | Component RQ | Component TPQ | Product RQ |
|-----------------|--------------|---------------|------------|
| Ethylene Glycol | 5000 lbs | None | 5303 lbs |

CHEMICAL INVENTORIES:

CANADA: All the components of this material are on the Canadian Domestic Substances List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

UNITED STATES; All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

NEW JERSEY RTK CLASSIFICATION:

Refer to components listed in Section 2.

WHMIS CLASSIFICATION:

Class D. Division 1, Subdivision B: Toxic Material -

Acute Lethality

Class D, Division 2, Subdivision A: Very Toxic Material -

Chronic Toxic Effects

Teratogenicity and Embryotoxicity

Class D. Division 2, Subdivision B: Toxic Material -

Skin or Eye Irritation

NFPA RATINGS:

Health: 2

Flammability: 1

Reactivity: 0

Rovision Number: 1

Revision Date: 05/20/2002

6 of 7

TEXACO TEXCOOL E 100

MSDS: 10489

HMIS RATINGS:

Health: 2"

Flammability: 1

Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). 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: This revision updates Section 2 (Composition/Ingredient Information), Section 5 (Fire Fighting Measures), Section 11 (Toxicological Information), and Section 15 (Regulatory Information).

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

PEL - Permissible Exposure Limit

CAS - Chemical Abstract Service Number

NDA - No Data Available

NA - Not Applicable

<= - Less Than or Equal To

>= - Greater Than or Equal To

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910, 1200) and the ANSI MSDS Standard (Z400.1).

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 modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Rovision Number: 1 Rovision Date: 05/20/2002 7 of 7

TEXACO TEXCOOL E 100 MSDS: 10469 istrict I - (505) 393-6161
O. Box 1980
obbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
tesia, NM 88210
'trict III - (505) 334-6178
Rio Brazos Road

istrict IV - (505) 827-7131

c, NM 87410.

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

NOV 1 8 2002 2040 South Pacheco Street Santa Fe, New Mexico 87505

OIL CONSERVATION (505) 827-7131 DIVISION Originated 8/8/95
Submit Original

Env. JN: 02099-004

Form C-138

Submit Original Plus 1 Copy to appropriate District Office

| REQUEST FOR APPROVAL TO ACCEPT | SOLID WASTE |
|---|--|
| 1. RCRA Exempt: Non-Exempt: X | 4. Generator ブロ OFER ATING |
| Verbal Approval Received: Yes 🔲 No 🔀 | 5. Originating Site Main Yard |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2 | 6. Transporter Paul & Sons |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401 | 8. State New Weye'co |
| 7. Location of Material (Street Address or ULSTR) | 2405 B. Southside Rivar Rd |
| 9. Circle One: | Formington, abled. |
| A. All requests for approval to accept oilfield exempt wastes will be accepted and acceptance; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved. | ompanied by necessary chemical analysis to |
| All transporters must certify the wastes delivered are only those consigned | d for transport. |
| Soil contominated with laberail Soil classed uport Two Operations 18 done. To tal weedels enelysis all | NOV 2002 STORY ON CONS. DIV. DIST. 3 |
| Estimated volume cy Known volume (to be entered by the ope | |
| SIGNATURE: Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL | EPHONE NO. 505-632-0615 |
| (This space for State Use) APPROVED BY: Deny Tent TITLE: Environ | 1 Eng DATE: 11/14/02 |
| APPROVED BY: // Mater / TITLE: CHUI JOHAN | 1 DATE: 1/10/02 |



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEO DISTRICT OFFICE 1000 RIG BRAZOS ROAD AZTEC, NEW MEXICO 57418 (505) 334-5170 FAK (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

02099-004

| 1. Generator Name and Address: JW Operating 2405 B SouthSide River Road Farmington, U.M. B7401 3. Originating Site (name): JW-Operating yard 2405 B S S. RR | 2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR): |
|--|---|
| Farmington, U.M. 87401. Attach fist of agginating sites as appropriate 4. Source and Description of Waste Lube oil. Contour insteads Skilds. | soil; oil brow compressor |
| 1988, regulatory determination, the above described verified waste NON-EXEM | representative for: do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification |
| For NON-EXEMPT waste the following documentat MSDS Information RCRA Hazardous Waste Analysis Chain of Custody | |
| This waste is in compliance with Regulated Levels of N. to 20 NMAC 3.1 subpart 1403.C and D. | aturally Occurring Radioactive Material (NORM) pursuant |
| Name (Original Signature): May J. Klob
Title: Loud Mechanic
Date: 10/15/02 | m |



TRACE METAL ANALYSIS

| Client: | J W Power | Project #: | 02099-004 |
|--------------------|---------------|------------------|-------------|
| Sample ID: | Composite | Date Reported: | 10-18-02 |
| Laboratory Number: | 24053 | Date Sampled: | 10-16-02 |
| Chain of Custody: | 10359 | Date Received: | 10-16-02 |
| Sample Matrix: | Soil | Date Analyzed: | 10-18-02 |
| Preservative: | Cool | Date Digested: | 10-18-02 |
| Condition: | Cool & Intact | Analysis Needed: | RCRA Metals |

| Parameter | Concentration
(mg/Kg) | Det.
Limit
(mg/Kg) | Regulatory
Level
(mg/Kg) | :
:
:
: |
|-----------|--------------------------|--------------------------|--------------------------------|------------------|
| | | | | |
| Arsenic | 0.010 | 0.001 | 5.0 | |
| Barium | 3.22 | 0.001 | 100 | |
| Cadmium | 0.004 | 0.001 | 1.0 | |
| Chromium | 0.012 | 0.001 | 5.0 | |
| Lead | 0.008 | 0.001 | 5.0 | |
| Mercury | ND | 0.001 | 0.2 | |
| Selenium | 0.006 | 0.001 | 1.0 | |
| Silver | ND | 0.001 | 5.0 | |

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

LF 2 - 5, BB - 13, Hilltop, NM.

Analyst

/ Misting Walters



TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

| | | | | | | • | | |
|--|---|-----------------|----------------------|------------|-----------|------------|---------------------|------------------------|
| Client: | | QA/QC | | Project #: | | | N/A | |
| Sample ID: | | 10-18-TM | QA/QC | Date Repo | rted: | | 10-18-02 | |
| Laboratory Number: | | 24053 | | Date Samp | led: | | N/A | |
| Sample Matrix: | | Soil | | Date Recei | ved: | | N/A | |
| Analysis Requested: | | Total RCR | A Metals | Date Analy | zed: | | 10-18-02 | |
| Condition: | • • | N/A | | Date Diges | ted: | • | 10-18-02 | |
| Blank & Duplicate
Conc. (mg/Kg) | Instrument
Blank (mg/L) | Method
Blank | Detect
Limi | | Duplicate | %
Diff. | Acceptance
Range | 30.C**0.05.00 |
| Arsenic | ND | ND | 0.001 | 0.010 | 0.010 | 0.0% | 0% - 30% | × |
| Barium | ND | ND | 0.001 | 3.22 | 3.19 | 0.9% | 0% - 30% | |
| Cadmium | ND | ND | 0.001 | 0.004 | 0.004 | 0.0% | 0% - 30% | |
| Chromium | ND | ND | 0.001 | 0.012 | 0.012 | 0.0% | 0% - 30% | |
| Lead | ND | ND | 0.001 | 0.008 | 0.008 | 0.0% | 0% - 30% | |
| Mercury | ND | ND | 0.001 | ND | ND | 0.0% | 0% - 30% | |
| Selenium | ND | ND | 0.001 | 0.006 | 0.006 | 0.0% | 0% - 30% | |
| Silver | ND | ND | 0.001 | ND | ND | 0.0% | 0% - 30% | |
| Salar C. Caralla Maria Caralla | 105 x 13 45 x 12 42 15 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Sec. comments of the | | | | | 2 |
| Spike | | Spike | Samp | | Percent | | Acceptance | - Marine |
| Cone: (mg/Kg)** | | Added | | Sample | Recovery | | Range | dispersion of the last |
| Arsenic | | 0.500 | 0.010 | 0.509 | 99.8% | | 80% - 120% | |
| Barium | | 0.500 | 3.22 | 3.70 | 99.5% | | 80% - 120% | |
| Cadmium | | 0.500 | 0.004 | 0.503 | 99.8% | | 80% - 120% | |
| Chromium | | 0.500 | 0.012 | 0.510 | 99.6% | | 80% - 120% | |
| Lead | | 0.500 | 800.0 | 0.506 | 99.6% | | 80% - 120% | |
| Mercury | | 0.050 | ND | 0.049 | 98.0% | | 80% - 120% | |
| | | | | | | | | |

ND - Parameter not detected at the stated detection limit.

References:

Selenium

Silver

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

0.006

ND

SW-846, USEPA, December 1996.

0.500

0.500

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

0.504

0.499

99.6%

99.8%

80% - 120%

80% - 120%

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 24053 and 24057.

Ånalyst

CHAIN OF CUSTODY RECORD

| ANALYSIS / PARAMETERS | Remarks | | | | | | | | Date Time 10/14/80 | | | Sample Receipt | V/Z Z → | Received Intact | Cool - Ice/Blue Ice |
|-----------------------|---------------------------|-------------------------------|-------------|--|---|--|---|--|------------------------------------|------------------------------|------------------------------|----------------|---------|---|---------------------|
| , BB-13, H:1120,NM |)
O
D. of
ainers | Cont
ろろ | 50:1 | | | | 7 | | Date Time Received by: (Signature) | Received by: (Signature) | Received by: (Signature) | ENVIROTECH INC | | 5796 U.S. Highway 64
Farmington New Mexico 87401 | (505) 632-0615 |
| Project Location | Client No.
の2017 | Sample Lab Number
Time | 18:30 24053 | | 1 | | | | | | | | | | |
| | | Sample S
Date | 10/11/01 | | | | | | (e) | (e) | е) | | | | |
| Client / Project Name | Sampler: | Sample No./
Identification | Composite | | | | | | Relinquished by (Signature) | Belinquished by: (Signature) | Relinquished by: (Signature) | | | | |

District I - (505) 393-6161
P. O. Box 1940
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410

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 4/18/95

> Submit Original Plus 1 Copy to appropriate District Office

| trict IY - (505) 827-7131 | | 02099-002 |
|---|---|--|
| REQUEST FOR APP | ROVAL TO ACCEPT | SOLID WASTE |
| 1. RCRA Exempt: Non-Exempt: | D.F. 1017/02
8.30am | 4. Generator W Operating |
| Verbal Approval Received: | No 🔲 | 5. Originating Site NEBU 303 |
| 2. Management Facility Destination | Soy Remediation | 6. Transporter Paul + Sous |
| 3. Address of Facility Operator 5796 NS Hay | 64 | 8. State M |
| 7. Location of Material (Street Address or ULSTR) | 7 0.1 | N. Rio arriba Cty. |
| 9. Circle One: | | , |
| A. All requests for approval to accept oilfield ex Generator; one certificate per job. B. All requests for approval to accept non-exer PROVE the material is not-hazardous and the listing or testing will be approved. All transporters must certify the wastes delivered | mpt wastes must be acco
le Generator's certification | mpanied by necessary chemical analysis to nof origin. No waste classified hazardous by |
| Estimated Volume cy Known Volume SIGNATURE: Waste Management Facility Authorized Agent | TITLE Administ | NOV 2002 Trator at the end of the haul) The contract of the haul |
| TYPE OR PRINT NAME: LLTT TWI COSCOR | IELI | EPHONE NO |
| (This space for State Use) | | |

564-3450



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 [308] 334-8178 Pax [303]334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: | 2. Destination Name: |
|--|--|
| J.W. Operating | Envirotech Soil Remediation Facility |
| 2405 B Southside R.R. | Landfarm #2 |
| 87401 | Hilltop, New Mexico |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): |
| Nebu 303 | Sec. 20 T31 N RGW |
| | O. A. hasty. |
| | Sill. 20 T31 n R low, Rio arty. |
| Attach list of originating sites as appropriate | |
| 4. Source and Description of Waste | |
| Lube oils on ground. | |
| · | |
| · | |
| | |
| | |
| $\frac{1}{2}$ | donumentative for |
| I, VOM (Print Name) | representative for: |
| J.W. Operating | do hereby certify that, |
| | ry Act (RCRA) and Environmental Protection Agency's July, |
| 1988, regulatory determination, the above described | Waste is: (Check appropriate classification) |
| EXEMPT oilfield waste NON-EXEM | IPT oilfield waste which is non-hazardous by characteristic |
| analysis or | NPT oilfield waste which is non-hazardous by characteristic by product identification |
| and that nothing has been added to the exempt or no | |
| and that rouning has been added to the exempt of no | Treating the traction of the state of the st |
| For NON-EXEMPT waste the following documenta | tion is attached (check appropriate items): |
| MSDS Information | Cother (description): |
| RCRA Hazardous Waste Analysis Chain of Custody | |
| The state of the s | |
| | |
| | |
| · – | Vaturally Occurring Radioactive Material (NORM) pursuant |
| This wasta is in compliance with Regulated Levels of I
to 20 NMAC 3.1 subpart 1403.C and D. | Naturally Occurring Radioactive Material (NORM) pursuant |
| to 20 NMAC 3.1 subpart 1403.C and D. | |
| to 20 NMAC 3.1 subpart 1403.C and D. | |
| Name (Original Signature): Max U. Klo | |
| Name (Original Signature): Max U. Klo | |
| Name (Original Signature): Max U. Klo Title: head Mechanic | h1 |
| Name (Original Signature): Max U. Klo | h1 |





0.2

1.0

5.0

| Client: | CSI | Project #: | 01038-005 |
|--------------------|--------------------------|--------------------------|--------------------------------|
| Sample ID: | Grab | Date Reported: | 10-10-02 |
| Laboratory Number: | 23980 | Date Sampled: | 10-08-02 |
| Chain of Custody: | 10323 | Date Received: | 10-08-02 |
| Sample Matrix: | Soil | Date Analyzed: | 10-10-02 |
| Preservative: | Cool | Date Digested: | 10-09-02 |
| Condition: | Cool & Intact | Analysis Needed: | RCRA Metals |
| Parameter | Concentration
(mg/Kg) | Det.
Limit
(mg/Kg) | Regulatory
Level
(mg/Kg) |
| | | | |
| Arsenic | 0.012 | 0.001 | 5.0 |
| Barium | 1.91 | 0.001 | 100 |
| Cadmium | ND | 0.001 | 1.0 |
| Chromium | 0.001 | 0.001 | 5.0 |
| Lead | 0.002 | 0.001 | 5.0 |

ND - Parameter not detected at the stated detection limit.

References:

Mercury Selenium

Silver

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

ND

ND

0.007

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

S.J. 31-6 #207.

Analyst

Review

0.001

0.001

0.001





| Client: | QA/QC | Project #: | N/A |
|---------------------|-------------------|----------------|----------|
| Sample ID: | 10-10-TM QA/QC | Date Reported: | 10-10-02 |
| Laboratory Number: | 23980 | Date Sampled: | N/A |
| Sample Matrix: | Soil | Date Received: | N/A |
| Analysis Requested: | Total RCRA Metals | Date Analyzed: | 10-10-02 |
| Condition: | N/A | Date Digested: | 10-09-02 |

| Blank & Duplicate | Instrument
Blank (mg/L) | Method
Blank | Detection
Limit | Sample | e Duplicate | %
Diff. | Acceptance
Range |
|--------------------------|----------------------------|-----------------|--------------------|--------|-------------|------------|---------------------|
| Conc. (mg/Kg)
Arsenic | ND | ND | 0.001 | 0.012 | 0.012 | 0.0% | 0% - 30% |
| Barium | ND | ND | 0.001 | 1.91 | 1.90 | 0.5% | 0% - 30% |
| Cadmium | ND | ND | 0.001 | ND | ND | 0.0% | 0% - 30% |
| Chromium | ND | ND | 0.001 | 0.001 | 0.001 | 0.0% | 0% - 30% |
| Lead | ND | ND | 0.001 | 0,002 | 0.002 | 0.0% | 0% - 30% |
| Mercury | ND | ПN | 0.001 | ND | ND | 0.0% | 0% - 30% |
| Selenium | ND | ND | 0.001 | 0.007 | 0.007 | 0.0% | 0% - 30% |
| Silver | ND | ND | 0.001 | ND | ND | 0.0% | 0% - 30% |

| Spike | Spike | Sample | | | Acceptance |
|---------------|-------|--------|--------|----------|------------|
| Conc. (mg/Kg) | Added | | Sample | Recovery | Range |
| Arsenic | 0.500 | 0.012 | 0.511 | 99.8% | 80% - 120% |
| Barium | 0.500 | 1.91 | 2.40 | 99.6% | 80% - 120% |
| Cadmium | 0.500 | ND | 0.498 | 99.6% | 80% - 120% |
| Chromium | 0.500 | 0.001 | 0.500 | 99.8% | 80% - 120% |
| Lead | 0.500 | 0.002 | 0.501 | 99.8% | 80% - 120% |
| Mercury | 0.050 | ND | 0.050 | 100.0% | 80% - 120% |
| Selenium | 0.500 | 0.007 | 0.506 | 99.8% | 80% - 120% |
| Silver | 0.500 | ND | 0.499 | 99.8% | 80% - 120% |

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 23980 - 23981.

Analyst

Review

CHAIN OF CUSTODY RECORD

| ARAMETERS | Remarks | | | | | | | | Date Time | 00 17 70 10 10 10 10 10 10 10 10 10 10 10 10 10 | | Sample Receipt | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Received Intact | Cool - Ice/Blue Ice |
|---------------------------|---------------------|----------------------------------|---------------|--------------------------|--|--|--|----------------------|----------------|---|------------------------------|-----------------|---------------------------------------|--|---------------------|
| ST 31-6 # 207 | 0-850)6 | Sample Z
Matrix | | 180 Soil [/ | | | | j | M.87 (\$1.80) | Received by: (Signature) | Received by: (Signature) | ENVIROTECH INC. | | 5796 U.S. Highway 64
Farmington, New Mexico 87401 | (505) 632-0615 |
| Client / Project Name CSI | Sampler: Client No. | Sample Sample Lab N
Date Time | 55, 31-6 420g | Grad 10.8.62 16.45-23980 | | | | Doline nichod hw (6) | A Congradient | Relinquished by: (Signature) | Relinquished by: (Signature) | | | | |