NM1-011

CONTINUED

C - 138

YEAR(S):

2006-1997

• District I State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resou District II 1301 W. Grand Avenue, Artesia, NM 88210	Form C-138 Revised March 17, 1999	
District III Oil Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505	MAR 2003 MAR 20	
REQUEST FOR APPROVAL TO ACCEP	TSOLIDWASTE	
1. RCRA Exempt: 🗌 Non-Exempt: 🖾	4. Generator: Halliburton Energy Services 2. Communication	
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	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied b one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by r 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: 	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be sport.	
CWS & MSDS attached		
Estimated Volumecy Known Volume (to be entered by the operator at the end of the haul)cy		
SIGNATURE Hanagement Facility Authorized Agent TITLE: Environmental Administrative Assistant DATE: 11/08/02		
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615		
(This space for State Use) APPROVED BY: Dent Kent TITLE: Environ Engl DATE: 03/18/03 APPROVED BY: Manlin Shi TITLE: Environmental Code 15 + DATE: 03/28/03		
APPROVED BY: Marting John TITLE: Znui ronm	Ma / Geolog 13 + DATE: 05/28/03	



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 [508] 334-6178 Fex (505)334-6170

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:		
Halleburton Energy Services	Envirotech Soil Remediation Facility		
1085 E min Street	Landfarm #2 Hilltop, New Mexico		
Vernal Utah 84078			
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):		
Halluburten Energy Derouch	Smills S. Of Huch, Utah		
Vernal, Utah 84078	on Hwy 10		
Attach list of originating sites as appropriate			
4. Source and Description of Waste Muck	rillover. Waster Streams		
ansisted if diesel, an	ti-frenze, and oil.		
all related soils wer	e also himored.		
Marilan no no ha	ne and a second s		
, Rellie (DRelton	representative for:		
(Print Name)			
<u>ACCORDING CONSERVATION AND AND AND AND AND AND AND AND AND AN</u>			
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.			
or NON-EXEMPT waste the following documentati	on is attached (shock appropriate items).		
MSDS Information	Other (description):		
RCRA Hazardous Waste Analysis			
Chain of Custody			
والمستقين والمنافع المستعد المراجعة والمنافعة المتقار والمتحاف ويتكرون والمنافع والمتقار والمتحاف والمتحاف			

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): Hilling belin
Title: HSE IChnical Antessional
Date: 2/28/03

HALLIBURTON

MATERIAL SAFETY DATA SHEET

DIESEL FUEL

Revision Date: 10/23/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name:DIESEL FUELSynonyms:NoneChemical Family:Organic hydrocarbonApplication: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				
<u>Substance</u>	<u>Weight</u> Percent (%	ACGIH TLV-TWA	OSHA PEL-TWA	
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.

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):
Flash Point/Range (C):
Flash Point Method:
Autoignition Temperature (F):
Autoignition Temperature (C):
Flammability Limits in Air - Lower (%):
Flammability Limits in Air - Upper (%):

Not Determined Not Determined 495 257 0.7 6 Min: > 150 Min: > 65

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

p.8

DIESEL FUEL Page 2 of 7

p.9

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: Color:	Liquid 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):	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	Tox	icity:

Dermal Toxicity:

Inhalation Toxicity:

Primary Irritation Effect:

Not determined

Not determined

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

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.

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 Mar 14 03 03:36p

p.14

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 EMERGENCY TELEPHONE NUMBERS CHEVRON PRODUCTS COMPANY HEALTH (24 hr): (800)231-0623 or First Floor, 43/45 The Promenade (510)231-0623 (International) Cheltenham TRANSPORTATION (24 hr): CHEMTREC Gloucestershire, GL50 1LE (800)424-9300 or (703)527-3887 United Kingdom Emergency Information Centers are located in U.S.A. TELEPHONE: +44 (0) 1242 266700 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 AMOUNT COMPONENTS ETHYLENE GLYCOL Chemical Name: ETHYLENE GLYCOL > 90.00% CAS107211 C 50 ppm ACGIH TWA 125 mg/m3 OSHA 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 Number: 2

Revision Date: 11/17/99

MSDS Number: 007425

Mar 14 03 03:37p

CHEVRON Antifreeze (EHL)

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

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.

Revision Number: 2

Revision Date: 11/17/99

MSDS Number: 007425

CHEVRON Antifreeze (EHL)

Page 3 of 8

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.

Revision Date: 11/17/99

Mar 14 03 03:37p

CHEVRON Antifreeze (EHL)

Page 4 of 8

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.

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

MSDS Number: 007425

Mar 14 03 03:38p

CHEVRON Antifreeze (EHL)

Page 5 of 8

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Colorless (when not dyed). NDA :Hq VAPOR PRESSURE: NA VAPOR DENSITY (AIR=1):NA BOILING POINT: >165C FREEZING POINT: NDA MELTING POINT: NA Soluble in water. SOLUBILITY: 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 Revision Number: 2 Revision Date: 11/17/99 MSDS Number: 007425

p.18

5

CHEVRON Antifreeze (EHL)

Page 6 of 8

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: Delayed (Chronic) Health Effects: Fire Hazard: Sudden Release of Pressure Hazard: 	YES NO
Revision Number: 2	Revision Date: 11/17/99 MSDS Numb	per: 007425

Mar 14 03 03:39p

CHEVRON Antifreeze (EHL) Paqe 7 of 8 5. Reactivity Hazard: NO REGULATORY LISTS SEARCHED: 11=NJ RTK 22=TSCA Sect 5(a)(2) 01=SARA 313 23=TSCA Sect 5 12=CERCLA 302.4 02=MASS RTK 03=NTP Carcinogen 03=NTP Carcinogen 13=MN RTK 04=CA Prop 65-Carcin 14=ACGIH TWA 24=TSCA Sect 12(b) 25=TSCA Sect 8(a) 04=CA Prop 65-Repro Tox14=ACGIN TWA25=15CA Sect 8(a)05=CA Prop 65-Repro Tox15=ACGIH STEL26=TSCA Sect 8(d)06=IARC Group 116=ACGIH Calc TLV27=TSCA Sect 4(a)07=IARC Group 2A17=OSHA PEL28=Canadian WHMIS08=IARC Group 2B18=DOT Marine Pollutant29=OSHA CEILING09=SARA 302/30419=Chevron TWA30=Chevron STEL 28=Canadian WHMIS 20=EPA Carcinogen 10=PA RTK 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

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

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MSDS Number: 007425

CHEVRON Antifreeze (EHL)

 - Reportable Quantity - Ceiling Limit	PEL - Permissible Exposure Limit CAS - Chemical Abstract Service Number
- Appendix A Categories - No Data Available	() - 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 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.

Revision Date: 11/17/99

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MSDS Number: 007425

Page 8 of 8

District 1 State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Re 1301 W. Grand Avenue, Artesia, NM 88210 Oil Conservation Division 1000 Rio Brazos Road, Aztec, NM 87410 0il Conservation Division 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 REQUEST FOR APPROVAL TO ACC	Submit Original Plus 1 Copy to Appropriate District Office		
	4. Generator: Halliburton Energy		
1. RCRA Exempt: 🔲 Non-Exempt: 🖾	Services Print		
Verbal Approval Received: Yes 🗌 No 🖾	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 			
 9. <u>Circle One</u>: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport. 			
BRIEF DESCRIPTION OF MATERIAL:			
Fuel spilled from fuel tank following an incidental puncture. CWS & MSDS attached			
Estimated Volumecy Known Volume (to be entered by the operator at the end of the haul)cy			
SIGNATURE SIGNATURE Site Management Facility Authorized Agent TITLE: Environmental Administrative Assistant DATE: 10/31/02			
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615			
(This space for State Use) APPROVED BY: Derry Point TITLE: Enviro/Engl DATE: 03/18/03 APPROVED BY: Murty File. TITLE: Environmental Geologist DATE: 3/20/03			

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR

Date: _____Z

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1008 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-6178 Pax (505)334-6178

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JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

ا الله المركز ال	
1. Generator Name and Address:	2. Destination Name:
1. Generator Name and Address: Halliburtum Exercy Services	Envirotech Soil Remediation Facility
1199 E Main Ableit	Landfarm #2 Hilltop, New Mexico
Farmington, MM 87402	milicop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Halluburton Energy ferrice	
4109 E. Main Street	#264, Ignacio, CO
Janminatin, MM 81410	mach, ognand, a
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Jul spill from fuelta incidental puncture	ink following an
incidental purcture.	
1. Killie Skeltm	representative for:
Print Name)	-Almuran
according to the Resource Conservation and Becover	Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	Naste is: (Check appropriate classification)
	PT oilfield waste which is non-hazardous by characteristic
analysis of	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	ion is attached (check appropriate items): Other (description):
RCRA Hazardous Waste Analysis	Ciner (bescription):
Chain of Custody	
	the Operation Define at the state of the Operation
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D _t	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NIVIAC 3.1 Subpart 1405.C and D.	· · ·
	14. 7
Name (Original Signature): Kullus Me	141
iter that STA	Agenual

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

Product Stewardship Telephone: 1-580-251-4335

2. COMPOSITION/INFORMATION ON INGREDIENTS			
Substance	<u>Weight</u> Percent (%	ACGIH TLV-TWA	OSHA PEL-TWA
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.

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
Flash Point/Range (C):	Not Determined
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

Min: > 150 Min: > 65

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
Hq	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):	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

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

p.12

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 • 3

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

p.13

DIESEL FUEL Page 7 of 7 District I 1625 N. French Dr., Hobbs, NM 88240 District III 1301 W. Grand Avenue, Artesia, NM 88210 District IIII 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 a certification of waste from the Generator; one certificate per job.
- B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved
- All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Soil from sump cleanout and sump removal.

CWS and sump analytical attached.



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) cy	
SIGNATURE Hanagement Facility Authorized Agent TITLE: Environmental Administrative Assistant	DATE: <u>03/24/03</u>
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	03276 3
(This space for State Use) APPROVED BY: Der TOUST TITLE: Environ Engy DATE: APPROVED BY: Mantin TSJ. TITLE: Environmental Condepost DATE:	

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NEW MEXICO ENER NATURAL RESOL	RGY, MINERALS and JRCES DEPARTMENT
BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary	Lori Wrotenbery Director Oil Conservation Divisio
CERTIFICATE OF W	ASTE STATUS
1. Generator Name and Address BJ SERVICES 3250 JOUTH SIDE RIVER RD FARMINGTON NM 8740/	 Destination Name: Envirotech Inc. Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): SAME	Location of the Waste (Street address & or ULSTR);
4. Source and Description of Waste SOIL FROM SUMP ELEAN OU I. SCOTT SPRINGER Print Name <u>BJ SERVICES</u> Conservation and Recovery Act (RCRA) and Environmental Protection described waste is: (Check appropriate classification)	representative for ; do hereby certify that, according to the Resource
	T oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or non-exempt non -haz For NON-EXEMPT waste the following documentation is attached (ch MSDS InformationOther RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of Naturally Occu	lock appropriate items): or (description
NMAC 3.1 subpart 1403.C and D. Name (Original Signature): Solt Option	
Title: PROJECT MANAGER Date: 6/17/03	
Oil Conservation Division * 1000 Rio B Phone: (505) 334-6178 * Fax (505) 334-	

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 Crite	ria	· · · ·	
Parameter	Hazardous Waste Criterio	ı	
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

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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
		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)	0.0088	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 Acce	ptance Criteria	Parameter	Percent Recovery
		Fluorobenzene	100%
		1,4-difluorobenzene	100%
		4-bromochlorobenzene	100%
References:	Method 1311, Toxicity C	haracteristic Leaching Procedure, SW-8	346, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA, S	Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	pt. 1994.
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C section	261.24, July 1, 1992.
Comments:	3250 Southside Riv	ver Rd., Farmington, NM 87401	Wash Bay Sludge.
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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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	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:

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

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

Analyst

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ENVIROTECH LF

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

		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 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 Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	100%
References:	Method 3510, Separato	Characteristic Leaching Procedure, S ny Funnel Liquid-Liquid Extraction, S natics and Cyclic Ketones, SW-846, I	W-846, USEPA, July 1992.
Note:	Regulatory Limits based	d on 40 CFR part 261 Subpart C sect	tion 261.24, July 1, 1992.
Comments:	3250 Southside Ri	ver Rd., Farmington, NM 8740	01 Washbay Sludge.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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	

Parameter	Concentration	Det. Limit	Regulatory Level	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Arsenic	0.008	0.001	5.0	
Barium	0.114	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 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



QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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

NVIROTECH

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

		Deteotion	negalatory
	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.

Analyst

Review
Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-14-03
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)	
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 24803 - 24804, 24808.

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplic	cate	Date Reported:	02-14-03
Laboratory Number:	24803	· · ·	Date Sampled:	N/A
Sample Matrix:	TCLP Extrac	t	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

Review

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	02-14-03
Laboratory Number:	24803			Date Sample	ed:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	02-13-03
Condition:	N/A			Date Extracte	ed:	02-12-03
			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	99.0%	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.

Review

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RACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-14-03
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.

arameter Percent Recover
-fluorophenol 98
,4,6-tribromophenol 99

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.

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

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

Analyst

Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-14-03
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.

	2-Fluorophenol		
	2,4,6-Tribromoph	henol	99% 99%
		ching Procedure Test M	ethods for Evaluating Solid
		Liquid Extraction, Test M	ethods for Evaluating Solid
Method 8040, Phe	enols, Test Methods for	Evaluating Solid Waste,	SW-846, USEPA, Sept. 1986.
Regulatory Limits	based on 40 CFR part :	261 subpart C section 26	31.24, July 1, 1992.
QA/QC for san	nples 24803 - 2480	94, 24808.	
. april.		Review	26.702
	Waste, SW-846, U Method 3510, Sep Waste, SW-846, U Method 8040, Phe Regulatory Limits	Waste, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-I Waste, SW-846, USEPA, July 1992. Method 8040, Phenols, Test Methods for Regulatory Limits based on 40 CFR part	Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Me Waste, SW-846, USEPA, July 1992. Method 8040, Phenols, Test Methods for Evaluating Solid Waste, Regulatory Limits based on 40 CFR part 261 subpart C section 26 QA/QC for samples 24803 - 24804, 24808.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-14-03
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
		Analysis Requested:	TCLP

	Sample Result	Duplicate Result	Detection Limit	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	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 (Waste, SW-846, USEP/	Characteristic Leaching Procedure Test A, July 1992.	Methods for Evaluating Solid
	Method 3510, Separato Waste, SW-846, USEP/	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Was	te, 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	s 24803 - 24804, 24808.	
Analyst	P. aper	Review	QG.758

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

		Det.	Regulatory
		Analysis Requested:	TCLP
Condition:	N/A	Date Analyzed:	02-13-03
Preservative:	N/A	Date Extracted:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Laboratory Number:	02-13-TBN	Date Sampled:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-14-03
Client:	QA/QC	Project #:	N/A

Concentration (mg/L)				
ND	0.020	5.0		
ND	0.020	3.0		
ND	0.020	2.0		
ND	0.020	0.5		
ND	0.020	0.13		
ND	0.020	0.13		
	(mg/L) ND ND ND ND ND ND	(mg/L) (mg/L) ND 0.020 ND 0.020		

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Percent Recovery		
		2-fluorobiphenyl	101%		
References:	Method 3510, Separatory	aracteristic Leaching Procedure, S Funnel Liquid-Liquid Extraction, S ics and Cyclic Ketones, SW-846,	W-846, USEPA, July 1992.		
Note:	Regulatory Limits based o	n 40 CFR part 261 Subpart C sec	tion 261.24 July 1 1002		

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Oliont	QA/QC	Project #:	N/A
Client:		•	
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
		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Duridino	ND	0.020	5.0
rynune		0.020	5.0
•	ND	0.020	3.0
Hexachloroethane			
Hexachloroethane Nitrobenzene	ND	0.020	3.0
Hexachloroethane Nitrobenzene	ND ND	0.020 0.020	3.0 2.0
Nitrobenzene Hexachlorobutadiene	ND ND ND	0.020 0.020 0.020	3.0 2.0 0.5

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery		
		2-fluorobiphenyl	99%		
References:		Characteristic Leaching Procedure, S pry Funnel Liquid-Liquid Extraction, S			
		matics and Cyclic Ketones, SW-846,	•		
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.		

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:		N/A
Sample ID:	Matrix Duplicate	Date Reported	•	02-14-03
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 Reque	ested:	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.

QA/QC Accep	otance Criteria	Parameter	Maximum Difference							
• .		8090 Compounds	30%							
References:	Method 1311, Toxicity	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.								
	Method 3510, Separate	bry Funnel Liquid-Liquid Extraction, SN	W-846, USEPA, July 1992.							
	Method 8090, Nitroaror	matics and Cyclic Ketones, SW-846, U	JSEPA, Sept. 1986.							
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sect	ion 261.24, July 1, 1992.							
_		· · · · · · · · · · · · · · · · · · ·								

Comments: Q/

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	: QA/QC			Project #		N/A			
Sample ID:		02-14-TCN	1 QA/QC	Date Rep	orted:		02-14-03		
Laboratory Number:		24803		Date San	npled:		N/A		
Sample Matrix:		TCLP Extra	act	Date Rec	eived:		N/A		
Analysis Requested:		TCLP Meta	als	Date Ana	lyzed:		02-14-03		
Condition:		N/A		Date Extr	acted:		02-12-03		
DI201 005	Instrument	Method	Detection	Sample	Dualiasta	%	A		
Blank & Duplicate Conc. (mg/L)	Blank	Blank	Limit	Sampie	 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%		
+ + • • • • • • • • • • • • • • • •		ND	0.001	ND	ND	0.0%	0% - 30%		

Spike	Spike	Sampl	e Spiked	Percent	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:

Analyst

Review



) 1) -	AMETERS	Remarks		Uash bay	2					Date Time			Sample Receipt	Y N NA	Received Intact	Cool - Ice/Blue Ice
	Project Location 3250 Souths: de Qiver Od Farmington, NM 87401 O	ainers	Sample 20 Matrix	5/20/20 1 1	7					Date Time Received by: (Signature)		Received by: (Signature)	ENVIROTECH INC		5796 U.S. Highway 64 Farmington New Mexico 87401	(505) 632-0615
	Project Location 3250 50	Client No. 6		<i>موع ب</i> ه م						ŭ						
	Client / Project Name あろちにいたろ	Sampler: KPK	Sample No./ Sample Sample Identification Date Time	5-1 2/10/03 1340						Relinquighed by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)				

10620

<u>،</u>

CHAIN OF CUSTODY RECORD

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

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: 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 a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

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

BRIEF DESCRIPTION OF MATERIAL:

Soil contaminated with Mobil Pegasus Special 15W-40 from a compressor spillage.

CWS, MSDS, and TCLP Metals attached.



Estimated Volume <u>6</u> cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Hanagement Fability Authorized Agent TITLE: Environmental Administrative Assistant	t DATE: <u>03/25/03</u>
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	202 So
	E: <u>3/25/03</u> E: <u>3/27/03</u>



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR

Sherr

Title:

Date:

RR-150P

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Conuco Phillips 5525 Howy, Led-WBU 3004	Envirotech Soil Remediation Facility
5525 HWY, Ley-WB4 3004	Landfarm #2 Hilltop, New Mexico
Farmington wm 87401	nillop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
5531-6 #206	
""Section 4, Two 30N, 1	$2nG(\omega)$
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Compressor Spillage	
Mobil Pagasus specia	1 1510-40
mont regular specia	
1 Robert A. Wirte	inchrepresentative for:
1, Robert A. Wirte	
_ Lonoco Phillips Compa	しんしろ do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	
1000, regulately acternination, the above occurrent	
	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
$\underline{\mathcal{X}}$ MSDS Information	V Other (description):
RCRA Hazardous Waste Analysis	TCLP metals
\checkmark Chain of Custody	
This waste is in compliance with Regulated Levels of I	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
AILA	Anti /
Name (Original Signature):	K.H. WINGHNEN

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 800-424-9300 202-483-7616 CHEMTREC: ______ 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.

http://www.msdssolutions.com/doc-magrit/000000267/0000233219.html

Use water to keep fire exposed containers cool. Water spray may

3/25/2003

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 ODOR: Mild ODOR THRESHOLD-ppm: NE pH: NA 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 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. TATA: 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, 0,0-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 25=PA RTK 5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 26=RI RTK Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive _____ Ň **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 quarantee. 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. Appropiate 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

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10655	PARAMETERS	Remarks						$\frac{D_{\text{ate}}}{2/2}$ $\frac{T_{\text{ime}}}{3.25}$		Sample Receipt	Y N N/A	Received Intact	Cool - Ice/Blue Ice
CHAIN OF CUSTODY RECORD	Client / Project Name Construction // 100 Can 201 57 31-6 # 201	Client No. $\mathcal{O}(\mathbb{C} \subset \mathcal{S}_{\mathcal{A}})$.	Sample Ž Ř Matrix	Sail Comp 2/20/05 17:30 34411 Seri 1 X				Relinquished by: (Signature) Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	Relinquished by: (Signature) Received by: (Signature)	FOVIDOTFCH INC		5796 U.S. Highway 64	Farmington, New IVIEXICO 67401 (505) 632-0615

10653

UDUDA VUCTOIN DECORD

CLIENT:	Envirotech			Client Sample	D: 24911 /;	Soil Comp
Lab Order:	0303049			Collection	Date: 2/20/2	2003 5:30:00 PM
Project:	Conoco/Phillips					
Lab M:	0303049-01			Ma	atrix: EXTH	RACT
Analyses		Result	Limit	Qual Units	DF	Date Analyzed
MERCURY, TC	LP LEACHED					Analyst: MAP
Mercury		ND	0.20	mg/L	10	3/14/2003
EPA METHOD	6010C: TCLP METALS					Analyst: NMC
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

Hall Environmental Analysis Laboratory

Qualifiers:

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ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

Date: 18-Mar-03

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

CHAIN-OF-CUSTODY RECORD		HALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquergue. New Mexico 87109
WIERIN TO VITOLECH TAC	Project Name:	
1	Conoco/ Phillips	WWW.hallenvironmental.com
Address: 5796 US HULL Let	Project #:	A CONTRACT A CANALYSIS REQUEST A CONTRACT A C
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	Project Manager.	n0 s siOls
	Donis Acmen	<u></u>
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rax 1: (505) 1,32 - 1845	Samples Cod2 Yes DNo	F + 38 00 476 1, NO 00 PA 161 11 L151 131 132 135 135 135 135 135 135 135 135 135 135
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· ·		and digested in Nitric Acid.

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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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

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,	6. Transporter: TBA

3. Address of Facility Operator: 5796 U.S. Highway 64, Farmington, NM 8. State: New Mexico 87401 Project #92187-001b

7. Location of Material (Street Address or ULSTR) 99 Road 6500, Kirtland, New Mexico 87417

9. Circle One:

Landfarm #2

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

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

BRIEF DESCRIPTION OF MATERIAL:

New lube oil contaminated gravel from the Aneth Inlet Compressor at the San Juan River

CWS and MSDS attached.

MAR 2003 FELONED orl Cores. DN DIST. 3

cy

Estimated Volume

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

SIGNATURI ste Management Facility uthorized Agent

сy

TITLE: Environmental Administrative Assistant DATE: 03/24/03

032705-2

TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615

(This space for State Use)		
APPROVED BY: 2 Sont Cent	TITLE: Envoro/Engr	DATE: 03/25703
APPROVED BY: Muntin All.	TITLE: Environmental Coolgist	DATE: 3 /27/03
	2. Divernin ty (2001)	5/ml. <u>07=170</u>



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Jaanna Prukop Cabiaet Secretary Lorl Wrotenbery Director Oll 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): 5 AN JUAN RIVER PLANT 99 Rd 6500 Kin Mand N. Men 87417 attach list of originating sites as appropriate 4. Source and Description of Waste LUDE Oil Contaminated GRAVEL 4 CompRESSOR AT SAN JUAN River PLAN	Location of the Waste (Street address &/or ULSTR): Rom, The AWETH IN/ET IT (This WAS NEW oil) MSDS SENTIN,
I, <u>Arlyn Thorson</u> Print Name	representative for :
Western Gas Resources Inc. do hereby certify that, according Environmental Protection Agency's July, 1988, regulatory determinatio classification)	
EXEMPT oilfield waste X NON-EXE analysis or	MPT oilfield waste which is non-hazerdous by characteristic by product identification
and that nothing has been added to the exempt or non-exempt non-h	azardons waste defined above.
For NON-EXEMPT waste the following documentation is attached (hack annonriata itame).
· · · · · · · · · · · · · · · · · · ·	her (description
This waste is in compliance with Regulated Levels of Naturally Oc NMAC 3.1 subpart 1403.C and D.	curring Radioactive Material (NORM) pursuant to 20
Name (Original Signature): Of those	
Title: Field Supervisor	
Date: 3/24/03	

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

Page 1 of 7



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 Gas Engine Oil and HDAX LTG

PRODUCT NUMBER (E); CP5333325 CP5232327 CP5232328 CP5232331 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 Lubridance 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)331-0622 (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: (600)414-6737 email: lubenedsechevron.com Environmental, Safety, & Health Info: (925) 842-5535 Product Information: (800) 582 3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

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

CONTAINING

COMPONENT8	TRUOMA	LIMIT/QTY	AGENCY/TYPE
LUBRICATING BASE OIL SEVERELV REFINED DETROLEUM	DISTILLATE 80. 004	5 mg/m2 (mist) 10 mg/m3 (mist) 5 mg/m3 (mist)	acgih Twa Acgih Stel Usha Pel

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 54761975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64741547, CAS 64742627, CAS 64742680, or CAS 72623837.

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Page 2 of 7

ADDITIVES INCLUDING THE FOLLOWING < 20,00%

ZINC ALKARYL DITHIOPHOSPHATE Chemical Name: ZINC 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 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: Not expected to be harmful if swallowed. INMALATION: 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 fluah ayes 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 boap 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 youyking or respiratory discomfort occurs,

5. FIRE FIGHTING MEASURES

Page 3 of 7

FIRE CLASSIFICATION: Classification (29 CFR 1910,1200): Not classified by OSHA as flammable or combustible. FLAMMABLE PROPERTIES : FLASH POINT: (COC) 399F (204C) min. ANTOIGNITION: 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. 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 RELEAGE MEADURED

CHEMITEC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3987 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.

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 vepor) 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. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

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 road and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

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Page 4 of 7

ENGINEERING CONTROLS Use in a well-ventilated area. If user operations generate an cil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control sirborne 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 dil mist exposure limite. 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 liqu	
pH:	NDA
VAPOR FRESSURE:	NA
VAFOR DENSITY	
(AIR=1) :	NA
BOTITNG POINT:	NDA
FREEZING POINT:	NDA
MELTING POINT:	NA
SOLUBILITY:	Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY:	0,87 - 0.88 @ 15.6/15.6C
EVAPORATION RATE:	NA
VISCOSITY:	11.0 - 14.4 cSt @ 100C (min.)
PERCENT VOLATILE	
(VOL) I	NA

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. TOKICOLOGICAL INFORMATION

Page 5 of 7

EYE BFFECTS: 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 componence. ACUTE INHALATION EFFECTS: The acute respiratory Luxicity 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 cils 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; carelnoyenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans

(Group 2B).

This product contains zinc alkaryl dithiophosphate which is similar in toxicity to zinc alkyl dithiophosphate (ZDDP). Several (2DDPs) have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent 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 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.

Page 6 of 7

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 Uil - Not Mazardous Ly U.S. DOT. ADR/RID Hazard class - Not applicable. 15. REGULATORY INFORMATION 1. Immediate (Acuto) Health Effects: NO SARA 311 CATEGORIES: 2. Delayed (Chronic) Health Effects: NO NO 3. Fire Hazard: 4. Sudden Release of Pressure Hazard; NO NO 5. Reactivity Hazard: REGULATORY LISTS SEARCHED: 11-NJ 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) Use-Un stup 05-Carcin19=ACGIN TWA05=CA Prop 65-Repro Tox15=ACGIN STEL06=IARC Group 116=ACGIN Calc TLV07=1400 Group 2112-0003 DET 26=TSCA Sect 8(d) 27=T9CA Beet 4(a) 07=IARC Group 2A 17=OSHA PEL 28uCanadian WHMIS 06=1ARC 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 PETROLEUM DISTILLATS is found on lists: 14,15,17, EU RISK AND SAFETY LABEL PHRASES: R53: 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 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, 1-6light, 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

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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
		TPQ	-	Threshold Flanning Quantity
RQ -	Reportable Quantity			Permissible Exposure Limit
с -	Colling Limit	CAJ	-	Chemical Abstract Service Number
	Appendix A Categories	()	-	Change Has Been Proposed
NDA -	No Data Available	NA	•	Nor Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDB 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 Buitability of the material for his particular purpose.

 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 Di

MAR 2003

CONS. D

cy

DATE:

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: 🔲 Non-Exempt: 🖾	4. Generator: Western Gas Resources
Verbal Approval Received: Yes 🗌 No 🖾	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:

APPROVED BY:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

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

BRIEF DESCRIPTION OF MATERIAL:

Lube oil contaminated gravel and dirt from compressor station. This waste stream was previously approved in November of 2002 but was never received.

CWS and October 2002 analytical attached.

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

TITLE: Environmental Administrative Assistant SIGNATURE DATE: 03/24/03 Waste Management Facility Authorized Agent -201250 TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615 (This space for State Use) APPROVED BY: TITLE:

TITLE:



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Goversor Joanna Prukop Cabinot Socratary Lori Wrotenbery Director Oll 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	Hillup, New Mexico											
	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, Utah												
	attach list of originating sites as appropriate											
4. Source and Description of Waste	an station											
Lube oil contaminated gravel and dirt from compress	sur station.											
I, Arlyn Thorson	ropresentative for :											
Print Name												
Western Gas Resources Inc. do hereby certify that, according to												
Environmental Protection Agency's July, 1988, regulatory determination	n, the above described waste is: (Cheek appropriate											
classification)												
	WPT oilfield waste which is non-hazardous by characteristic by product identification											
and that nothing has been added to the exempt or non-exempt non has	zardous waste defined abovo.											
For NON-EXEMPT waste the following documentation is attached (c)												
	er (description											
X RCRA Hazardous Waste Analysis												
X Chain of Custody												
This waste is in compliance with Regulated Levels of Naturally Occ	curring Radioactive Material (NORM) pursuant to 20											
NMAC 3.1 subpart 1403.C and D.	•											
Name (Original Signature): Ort Thomas												
Title: Field Supervison												
Date: 3/24/03												

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

WESTERN GAS RESOURCES ID: 15055986210 ENVIROTECH LABS

TRACE METAL ANALYSIS

.

Western Gas Resources	Project #:	92187-001	
Grab	Date Reported:	10-11-02	
23991	Date Sampled:	10-10-02	
10328	Date Received:	10-10-02	
Soll	Date Analyzed:	10-11-02	
Cool	Date Digested:	10-10-02	
Cool & Inlact	Analysis Needed:	RCRA Metals	
Concentration	Det. Limit	Regulatory Level	
(mg/Kg)	(mg/ <u>\\g)</u>	(mg/Kg)	
0.006	0.001	5.0	
	0.001	100	
	0.001	1.0	
0.001	0.001	5.0	
0.001	0.001	5.0	
0.001 ND	0.001 0.001	5.0 0.2	
	Grab 23991 10328 Soli Cool & Intact Concentration (mg/Kg) 0.006 1.21 0.001	GrabDate Reported:23991Date Sampled:10328Date Received:SollDate Analyzed:CoolDate Digested:Cool & IntactAnalysis Needed:Concentration (mg/Kg)Det. Limit (mg/Kg)0.0060.0011.210.0010.0010.001	Grab Date Reported: 10-11-02 23991 Date Sampled: 10-10-02 10328 Date Received: 10-10-02 Soli Date Analyzed: 10-11-02 Cool Date Digested: 10-10-02 Cool Date Digested: 10-10-02 Cool & Intact Analysis Needed: RCRA Metals Det. Regulatory Level (mg/Kg) (mg/Kg) (mg/Kg)

ND - Parameter not detected at the stated detection limit.

References: 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

WESTERN GAS RESOURCES ID: 15055986210 ENVIROTECH LABS PRACTICAL SOLUTIONS FOR A BELLER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

.

							· · ·
Cllent:		QA/QC		Project #:			N/A
Sample ID:		10-11-TM	QAVQC	Date Rep	orted:		10-11-02
Laboratory Number:		23991		Date Sam	pled:		N/A
Sample Matrix:		Soil		Date Rece	eived:		N/A
Analysis Requested:		Total RCR	A Metals	Date Anal	yzed:		10-11-02
Condition:		N/A		Date Dige	sted:		10-10-02
Blank & Dupilcate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method	Detectio		Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	0,006	0.006	0.0%	0% - 30%
Barlum	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%
Spike Conc. (mg/Kg)		Spike Added	Sample		and the second second second second	angen por ya 1919 - Barris 1948 - Barris	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

WEST	ERN GF	AS RES	OURCI	ES	ID:	1505	5986	210		 MAR	، 18 ک ل	03	10:0	19 1	lo.0	02	P.04
10328	AMETERS	Remarks									Date Time $I(y, y, z)$			Sample Receipt	Y N NA	Received Intact	Cool - Ice/Btue Ice
N OF CUSTODY RECORD	ion Comp Studies	27 - 001	Sample Ž Matrix	11 Soil (1							Date Time Répeived by: (Signature)		Received by: (Signature)	FOURDTFCH INC.		5796 U.S. Highway 64 Esrmination New Mexico 87401	(505) 632-0615
CHAIN OF	CFENT/ Project Name Project Location	Rampher. Arlyw Thorson 92137	Sample No/ Sample Sample Lab Number Kentification Date Time	3							Refinquished by (Signature)	Relinquished by: (Signature)	Refinquished by: (Signature)				

.
<u>utct I · (505) 393-6161</u> New Mexico	Form C-13
Box. 1980 bbs. NM 88241-1980 Energy Minerals and Natural Resource	es Department Originated 8/8/9
S. First Oil Conservation Division	
sia, NM 88210 2040 South Pacheco Street rict III - (505) 334-6178 Santa Fe, New Mexico 87505	Submit Origin Plus I Cop
Rio Brazos Road Santa Fe, New Meato 87505 c, NM 87410 (505) 827-7131	to appropria District Offi
rict IV - (505) 827-7131	98059-023
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: Non-Exempt:	4. Generator Con OMONIA
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site I Red #1R
2. Management Facility Destination La Renediation	
5796 US HUY 64	8. State Cours Maria
Janmington, 1111 81701	niba
	NWO@
 A. All requests for approval to accept oilfield exempt wastes will be acco Generator; one certificate per job. 	impanied by a certification of waste from the
B. All requests for approval to accept non-exempt wastes must be acco	
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.	n of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL:	
lind all contaminated said	
Used oil contaminated soil from len on the ground.	gene + compressor
	19 20 21 22 27
CWSAMSDS attached.	
	A BANG AND A
	E FE S. DN.
	AL ON OUT. 3
	Second Street
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) cy
SIGNATURE: Morin S. young TITLE: KINDIDU	NT DATE: 412/02
Waste Management FacilityAuthorized Agent	EPHONE NO. (505) 632-0615
TYPE OR PRINT NAME: MORALS D. YOUNG TEL	^ ^
(This space for State Use)	
APPROVED BY: Nerry Tam TITLE: Envir	0/ Eng K DATE: 2/18/03
The sail c.	
APPROVED BY: Nurther Jack TITLE: Environm	h/ lordy1st 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)334-6178

Scott Roglin

GARY E. JOHNSON GOVERNOR

0615

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
raimington, New Mexico 87401	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	SW15W Sec 32 + 30N R74
I Red #IR	
	Rio Arrian county
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
- a still from the institution	OPPESSOR
USED oil from Engine & Com on the ground	
on the ground	
5 APRI-	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, waste is: (Check appropriate classification)
EXEMPT oilfield waste	APT 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	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): <u>Scuttleft</u>	
Title: <u>Supervisor</u>	_
Date: 8/22/02	





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 O	il	
Tradenames and Synonym 7513, 7514, 7515 - C		
P.O.	UTOR o, Inc. Box 2197 on, TX 77252	
PHONE NUMBERS Product Informatio Transport Emergenc Medical Emergency		

COMPOSITION/INFORMATION ON INGREDIENTS

mponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	

If oil mist is generated, exposure limits 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)
Method	229 C (444 F) (SAE 15W-40)
Methou	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

BAD STRATE 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 NIOSHapproved 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, exposur	e limits	apply.	
PEL (OSHA)	5 mg/m	3, 8 Hr.	TWA	
TLV (ACGIĤ)	5 mg/m	3, 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 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

AEL * (DuPont)

Boiling Point Vapor Pressure Vapor Density % Volatiles Evaporation Rate Solubility in Water Odor Form Color Specific Gravity Density 700-1100 F (371-593 C) Nil >1 (Air = 1) Nil Insoluble Petroleum hydrocarbon (mild) Liquid Amber to Brown 0.88 @ 60 F (16 C) 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	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	
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

Foust, Denny

From:	Kieling, Martyne
Sent:	Monday, February 24, 2003 4:11 PM
То:	'Lany Jackson'
Cc:	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

Universal Compression

Order No.: 0303052

Dear Dennis Ajeman:

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

Hall Environmental

Analysis Laboratory

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



4901 Hawkins NE, Suite A, Albuquerque, NM 87109 505.345-3975, Fax 505.345-4107

Analyses		Result	Limit Qual	Units	DF	Date Analyzed
Lab ID:	0303052-01			Matrix	: SOIL	agaagaaaaaa ah
Project:	Envirotech					
Lab Order:	0303052			Collection Date	: 3/6/200)3 11:15:00 AM
CLIENT:	Envirotech		Cli	ent Sample ID:	24997/Co	ellGG-17

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

Date: 14-Mar-03

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



Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

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ID MB-3233 Batch ID: 3233 Test Code: SWr471 Units: mg/Kq Aralysis Delia bit Mill ID MB-3233 Batch ID: 3234 Test Code: SWr471 Units: SeqNo: 1735 ID MD 0.03 Set Rai Vali %REC LowLimit HghLimit ID MD 0.033 Test Code: SW601A Units: Mg/Kal Vali %REC LowLimit HghLimit ID MD-3254 Batch ID: 3254 Test Code: SW601A Units: Mg/Kal Vali %REC LowLimit HghLimit ID MD-3254 Batch ID: 3254 Test Code: SW601A Units: Mg/Kal Vali %REC LowLimit HghLimit ID MD-3254 Batch ID: 3254 Test Code: SW601A Units: Mg/Kal Vali %REC LowLimit HghLimit ID MD Tot SPK Value SPK Kal Vali %REC LowLimit HghLimit ID MD 10 D	Project:	Envirotech										Method E	Slank
ID: Run ID: MuL.AZ54_030311A SeqNo: 7245 Py ND 0.03 × SeqNo: 1474 Pi ND 0.03 × SeqNo: 7454 Pi ND 0.03 × SeqNo: 7454 Pi NB-3254 Run ID: 203 Analysis Det Althritt 7414 D: NB-3254 Batch ID: 3254 Test Code: SW010A Analysis Det Althritt 7414 D: NB-3254 Batch ID: 3254 Test Code: SW010A Analysis Det Althritt 743 D: NB-3254 Batch ID: 3254 Test Code: SPK Ref Val %REC LowLimit HighLimit D: ND 10 ND 10 NC NC NC ND 10 U ND 0.10 0.10 0.10 0.10 0.10 ND 10 ND 10 ND 10 ND 10 ND ND 10 ND 10 ND 10 ND 10 ND 10 ND ND ND <th>Sample ID MB</th> <th>- - -</th> <th>Batch ID: 3233</th> <th>Test Code:</th> <th>SW7471</th> <th>Units: mg/Kg</th> <th></th> <th>Analysis</th> <th>Date 3/11/</th> <th>2003</th> <th>Prep Dá</th> <th>ate 3/10/2003</th> <th></th>	Sample ID MB	- - -	Batch ID: 3233	Test Code:	SW7471	Units: mg/Kg		Analysis	Date 3/11/	2003	Prep Dá	ate 3/10/2003	
e Result PQL SPK value SPK ref Val %AEC Low/Imit HighLimit 73 ND 0.03 7.35 Analysis Dat 3/14/ e1D MB-3254 Test Code: SMC10A Units: mg/Kg Analysis Date 3/14/ D1 MB-3254 Test Code: SMC10A Units: mg/Kg Analysis Date 3/14/ D1 MB-3254 Test Code: SMC10A Units: mg/Kg Analysis Date 3/14/ D1 MD SPK walue SPK Ref Val %RC Low/Imit HighLimit e MD 0.10 ND 10 SPK Ref Val %RC Low/Imit HighLimit m 0.0174 0.10 0.10 0.10 0.10 HighLimit	Client ID:			Run ID:	MI-LA254_03	0311 A		SeqNo:		25			
N ND 0.033 Analysis Ananalysis Analysis<	Analyte		Result	PQL	SPK value	SPK Ref Val		LowLimit	HighLimit		%RPD		Qual
eID MB-3254 Test Code: SW6010A Units: mg/Kg Analysis Date 314.1 D: Run D: ICP_303148 SeqNo: 7365 e Run D: ICP_303148 SeqNo: 7365 e ND 1.0 SPK value SPK Ref Val %REC LowLimit HighLimit c ND 0.006754 0.10 0.10 %REC LowLimit HighLimit n 0.006754 0.10 0.10 0.10 %REC LowLimit HighLimit n 0.10 0.10 0.10 0.10 0.10 ND ND ND n ND 0.10 0.10 0.10 0.25 ND ND ND ND n ND ND 0.025 ND 0.25 ND ND ND ND ND ND ND ND 0.25 ND S S S S S S S n ND ND 0.25 ND ND S S S S S S S n ND ND ND S S S S S S	Mercury		QN	0.033									-
ID: Run ID: Run ID: CP_00314B SeqNo: 1365 e Result POL SPK Ref Value SPK Ref Val HighLimit c ND 1.0 YKEC LowLimit HighLimit c ND 0.10 %KEC LowLimit HighLimit nm 0.174 0.10 1.0 ME ME ME nm 0.174 0.30 1.0 1.0 ME ME<	Sample ID MB		Batch ID: 3254	Test Code:	SW6010A	Units: mg/Kg		Analysis	Date 3/14/	2003	Prep D	ate 3/12/200:	
e Result POL SPK value SPK Ref Val WREC LowLimit HighLimit c ND 1.0 1.0 0.06734 0.10 1.0 1.0 nm ND 0.114 0.30 0.10 1.10	Client ID:			Run ID:	ICP_030314B	•		SeqNo:		52			
c ND 1.0 n 0.06754 0.10 um ND 0.12 nm 0.174 0.30 nm 0.174 0.30 nm 0.16 0.25 nm 0.10 1.0 nm 0.025 nm 0.025 nm 0.25	Analyte		Result	PQL	SPK value	SPK Ref Val		LowLimit	HighLimit	RPD Ref Val	%RPD		Qual
n 0.06754 0.10 um ND 0.174 0.30 um 0.174 0.30 0.15 um ND 1.0 0.25 ND 0.25 0.10 0.25 nm 0.25 0.10 0.25 nm 0.25 0.10 0.25 nD 0.25 0.25 0.10 filer: ND - Not Detected at the Raporting Limit 5 - Spike Recovery outside accepted recovery limits filer: ND - Not Detected below quantitation limits 8 - RPD outside accepted recovery limits	Arsenic		Ŋ	1.0							4		
Im ND 0.10 im 0.174 0.30 im ND 0.25 im ND 1.0 im ND 0.25 im ND 0.25 im ND 5 im 0.16 im 0.17 im ND-Not Detected at the Reporting Limit in 1-Analyte detected below quantitation limits	Barium		0.06754	0.10									7
Ium 0.174 0.30 Um ND 0.25 ND 1.0 ND 0.25	Cadmium		QN	0.10									
Im 0.25 ND 1.0 ND 0.25 Interst 0.25 Interst ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits	Chromium		0.174	0.30									٦
Im ND 1.0 ND 0.25 ND 0.25 Ifers: ND - Not Detected at the Reporting Limit S - Splike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits	Lead		QN	0.25									
Image: ND 0.25 Image: ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits	Selenium		QN	1.0									
ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits	Silver		Q	0.25									
ND - Not Detected at the Reporting Limit 5 - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits 8 - RPD outside accepted recovery limits			L.										
ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits													
ND - Not Detected at the Reporting Limit 5 - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits													
ND - Not Detected at the Reporting Limit 5 - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits													
ND - Not Detected at the Reporting Limit 5 - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits													
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ND - Not Detected at the Reporting LimitS - Spike Recovery outside accepted recovery limitsJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limits													
ND - Not Detected at the Reporting LimitS - Spike Recovery outside accepted recovery limitsJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limits					·								
ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits													
	Qualifiers:	ND - Not Detect	ted at the Reporting Limit		S - Spi	ke Recovery outside :	accepted reco	very limits		B - Analyte detected	in the assoc	siated Method E	3 lank
		J - Analyte detec	cted below quantitation lin	nits	R - RP	D outside accepted re	scovery limits						I^{*}

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CLIENT:		G							QC SUI	QC SUMMARY REPORT	Y REPC	RT
Work Uraer: Project:	Envirotech	J								San	Sample Duplicate	icate
Sample ID 030:	0303052-04A	Batch ID: 3233	Test Code: SW7471	SW7471	Units: mg/Kg		Analysis Date	Date 3/11/	3/11/2003	Prep Da	Prep Date 3/10/2003	
Client ID: 250(25000/CellU-15 S		Run ID:	MI-LA254_030311A	0311 A		SeqNo:	172529	29	×		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		QN	0.033	0	0	0	0	0	0	0	30	
Sample ID 0303052-01A	3052-01A	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: 2499	24997/CellGG-17		Run ID:	ICP_030314B	**		SeqNo:	173661	31			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	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		QN	1.0	0	0	0	0	0	0	0	30	
Silver		ND	0.25	0	0	0	0	0	0.04943	0	30	
Qualifiers:	ND - Not Dete	ND - Not Detected at the Reporting Limit		S - Spi	S - Spike Recovery outside accepted recovery limits	accepted reco	overy limits		B - Analyte detected in the associated Method Blank	d in the associ	ated Method F	llank
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T: Envirotech Order: 0303052 t: Envirotech t: Envirotech 10 0303052-04A Batch ID: 323 12 25000/CellU-15 S 10 0303052-04A Batch ID: 323 10 0303052-04A Batch ID: 323 11 0303052-04A Batch ID: 323		and a second sec								
Drder: 0303052-04A Batch ID: 323 D 0303052-04A Batch ID: 323 : 25000/CellU-15 S D 0303052-04A Batch ID: 323 : 25000/CellU-15 S							QC SUN	QC SUMMARY REPORT	REPO	RT
D 0303052-04A Batch ID: 323 : 25000/CellU-15 S D 0303052-04A Batch ID: 323 : 25000/CellU-15 S	- -			:				Sample Matrix Spike	Aatrix Sp	ike
: 25000/CellU-15 S D 0303052-04A Batch ID: 323 : 25000/CellU-15 S	Test Co	Test Code: SW7471	Units: mg/Kg		Analysis I	Analysis Date 3/11/2003	13	Prep Date 3/10/2003	3/10/2003	
D 0303052-04A Batch ID: 323 : 25000/CellU-15 S	Run	Σ.	0311A							Ī
0303052-04A Batch ID: 323 25000/CellU-15 S	0.1191 0.033	33 0.1604		%кес 74.3	50					- dual
25000/CellU-15 S	Test Co	Test Code: SW7471	Units: mg/Kg		Analysis [Analysis Date 3/11/2003	13	Prep Date 3/10/2003	3/10/2003	
	Run ID:	MI-LA254_030311A	80311A		SeqNo:	172531				
	Result PQL	<pre>NL SPK value</pre>	SPK Ref Val	%REC	LowLimit	HighLimit RF	RPD Ref Val	%RPD RI	RPDLimit	Qual
Mercury 0.1	0.1139 0.033	33 0.1604	0	71.0	50	1500	0.1191	4.52	50	
Sample ID 0303052-01A MS Batch ID: 3254	Test Co	Test Code: SW6010A	Units: mg/Kg	ļ	Analysis I	Analysis Date 3/14/2003	33	Prep Date 3/12/2003	3/12/2003	
Client ID: 24997/CelIGG-17	Run ID:	ICP_030314B	~		SeqNo:	173655				
Analyte	Result PQL	2L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RF	RPD Ref Val	%RPD RI	RPDLimit	Qual
Arsenic 46	46.21 1	1.0 49.51	1.797	89.7	70	130	0			
			0	88.1	70	130	0			
lium		49	7.58	95.9	02	130	0			
Silver 47	47.09	0.25 49.51	0.04943	82.0	2	130	0			
Oualifiers: ND - Not Detected at the Renorting Limit	ae I imit	40 - 0	atimit Laterated objects							

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R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

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Hall Envir	onmental A	Hall Environmental Analysis Laboratory	ory							Date: 1	Date: <i>14-Mar-03</i>	
CLIENT: Work Order: Project:	Envirotech 0303052 Envirotech							Ľ,	QC SUN aboratory	MMAR Control	QC SUMMARY REPORT Laboratory Control Spike - generic)RT neric
Sample ID LCS-3233 Client ID:		Batch ID: 3233	Test Code: Run ID:	SW7471 Unit MI-LA254_030311A	Units: mg/Kg 0311A		Analysis SeqNo:	Analysis Date 3/11/2003 SeqNo: 172526		Prep D	Prep Date 3/10/2003	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.172	0.033	0.1625	0	106	80	120	0			
Sample ID LCS	LCSD-3233	Batch ID: 3233	Test Code:	SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003		Prep Date	ate 3/10/2003	
Client ID:			Run ID:	MI-LA254_030311A	0311 A		SeqNo:	172527				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.17	0.033	0.1625	0	105	80	120	0			
Sample ID LCS	LCS-3254	Batch ID: 3254	Test Code:	SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003		Prep D	Prep Date 3/12/2003	
Client ID:			Run ID:	ICP_030314B		×	SeqNo:	173653				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD	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	02	130	0			
Cadmium		45.96	0.10	50	0	91.9	70	130	0			
Chromium		47.84	0.30	50	0.174	95.3	20	130	0			
Lead		46.55	0.25	. 50	0	93.1	02	130	0			
Selenium		37.52	1.0	50	0	. 75.0	02	130	0			
Silver		48.05	0.25	20	o	96.1	02	130	0			
Qualifiers:	ND - Not Detec J - Analyte dete	ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits	lits	S - Sp R - RI	 S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits 	accepted rec	covery limits ts	B - A	nalyte detected	I in the assoc	${\sf B}$ - Analyte detected in the associated Method Blank I	3lank I

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CLIENT: Work Order: Project:	Envirotech 0303052 Envirotech							. 1	Laboratory Control Spike Duplicate	Control S	iboratory Control Spike Duplicate	icate
Samula ID 1 CSD-3254	D-3254 Batch ID: 3254	3254	Test Code:	SW6010A	Units: mg/Kg		Analysis	Analysis Date 3/14/2003	03	Prep Da	Prep Date 3/12/2003	
Client ID:				ICP_030314B			SeqNo:	173654				
Analyte		Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit	Qual
Arsonic		45.21	1.0	50	0	90.4	70	130	47.09	4.09	30	
Barium		41.88	0.10	50	0.06754	83.6	20	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	
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B - Analyte detected in the associated Method Blank

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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:

Client Name ENV T				Date and Tim	e Receive	3/7/03
Work Order Number 0303052				Received by	AMG	
	lo 3	7/	03 Date			
Matrix:	Carrier name:	Grey	<u>'hound</u>			
Shipping container/cooler in good condition?		Yes		No 🗌	Not Present	
Custody seals intact on shippping container/cod	pler?	Yes		No 🗔	Not Present	
Custody seals intact on sample bottles?		Yes		No 🗌	Not Present	
Chain of custody present?		Yes	\checkmark	No 🗌		
Chain of custody signed when relinquished and	received?	Yes	\checkmark	No 🗌		
Chain of custody agrees with sample labels?		Yes	\checkmark	No 🗆		
Samples in proper container/bottle?		Yes	\checkmark	No 🗌		
Sample containers intact?		Yes	\checkmark	No 🗌		
Sufficient sample volume for indicated test?		Yes	\checkmark	No 🗌		
All samples received within holding time?		Yes	\checkmark	No 🗌		
Water - VOA vials have zero headspace?	No VOA vials subn	nitted	\checkmark	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:						
				<u>.</u>		

Corrective Action						

District 1 - (505) 393-6161 New Mexico	Form C-138
O. Box 1980 Hobbs, NM 88241-1980 Energy Minerals and Natural Resource	
District II · (505) 748-1283 Oil Conservation Divisio	
11 S. First Artesia, NM 88210 2040 South Pacheco Street	Submit Original
<u>trict III</u> - (505) 334-6178 Santa Fe, New Mexico 87505	Pius 1 Copy to appropriate
Rio Brazos Road (505) 827-7131	$\bigcirc \bigcirc $
District IV - (505) 827-7131	98059-028
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
	Universal
1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes 🛄 No 🔽	5. Originating Site Howell
2. Management Facility Destination Spility LF #2	6. Transporter Envirolech
3. Address of Facility Operator 5796 US Howy 64 Jarmington, nm 87401	8. State NM
7. Location of Material (Street Address or ULSTR) "M" SIC 6, T300,	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accept	ompanied by a certification of waste from the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be according to the 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	d for transport
All transporters must certify the wastes derivered are only those consigned	
BRIEF DESCRIPTION OF MATERIAL:	
Used ungine oil contaminated s	A A TO 20 21 22 32
	A TO BOULCE CARE
CWS+ mSDS attached	A B B
CWSTICSDS actually	E FEB 200 ON. 2
	E ou part
	100
	CC 9 State
Estimated Volume	erator at the end of the haul)
SIGNATURE: morris 12 young TITLE: Prillide	nt DATE: 7/15/02,
Waste Management FacilityAuthorized Agent	EPHONE NO. (505) 632-0615 5
TYPE OR PRINT NAME: MONCIS D. HOLDA TEL	EPHONE NO. 1000 1000 UPTO
· · · · · · · · · · · · · · · · · · ·	
(This space for State Use)	
APPROVED BY: New Ken TITLE: Envir	10/Eng/ DATE: 2/18/02
21.4	
APPROVED BY: Monthing OSh . TITLE: En vironma	h locionst DATE: 3/27/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OLL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6170

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

	Destination New
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	HILLOP, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Howell G # 2	"M" SECOLO TOWN OBON Rangoosh
Attach list of originating sites as appropriate	
4. Source and Description of Waste USED ENG Oil Contaminated	66.1
USED BNO OIT (ON MALARET	201/
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	······································
1, Phil Nagel	representative for:
(Print Name)	· · · · · · · · · · · · · · · · · · ·
	do hereby certify that,
-	very Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above describe	U Waste is. (Cneck appropriate classification)
EXEMPT oilfield waste χ NON-EX	EMPT oilfield waste which is non-hazardous by characteristic
EXEIVIPT Dimeid waste NON-EX	or by product identification
unary 55	
and that nothing has been added to the exempt or r	non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documen	station 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 o	f Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
\sim)
Name (Original Signature):	
vanie (original orginalais)	
Tisto, Sacara	
Title: Supervisor	

Date: 8-28-82



MATERIAL SAFETY DATA SHEET

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		
uruuc		

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

Components Material	CAS Number %
Highly refined base oils	>80
Proprietary additives	<20

If oil mist is generated, exposure limits 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 250 C (482 F) (SAE 30) 257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40) Flash Point 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

END STOLEN TO T

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 NIOSHapproved 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 LimitsIf oil mist is generated, exposure limits apply.PEL (OSHA)5 mg/m3, 8 Hr. TWATLV (ACGIH)5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

AEL * (DuPont) 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 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
Vapor Pressure
Vapor Density
% Volatiles
Evaporation Rate
Solubility in Water
Odor
Form
Color
Specific Gravity
Density

700-1100 F (371-593 C) Nil >1 (Air = 1) Nil Insoluble Petroleum hydrocarbon (mild) Liquid Amber to Brown 0.88 @ 60 F (16 C) 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

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> 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 Californía 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.

Indicates updated section.

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End of MSDS

Foust, Denny

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From:	Kieling, Martyne
Sent:	Monday, February 24, 2003 4:11 PM
To:	'Lany Jackson'
Cc:	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 0 2003

Hall EnvironmentalAnalysis Laboratory

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

Universal Compression

Order No.: 0303052

Dear Dennis Ajeman:

RE: Envirotech

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



Date: 14-Mar-03

CLIENT: Client Sample ID: 24997/CellGG-17 Envirotech 0303052 Lab Order: Collection Date: 3/6/2003 11:15:00 AM **Project:** Envirotech Matrix: SOIL Lab ID: 0303052-01

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/ 02



Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

CLIENT:EnvirotechLab Order:0303052Project:EnvirotechLab 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 Ç	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

COmposi 02-05 For Universal compression

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

CLIENT:EnvirotechLab Order:0303052Project:EnvirotechLab ID:0303052-03

Client Sample ID: 24999/CellU-15 NE Collection Date: 3/6/2003 11:30:00 AM

Matrix: SOIL

Analyses	Result	Limit Q	ual 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



Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Client Sample ID: 25000/CellU-15 SW Collection Date: 3/6/2003 12:15:00 PM

Matrix: SOIL

Analyses	Result	Limit Q	Qual 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



Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
Hall Environmental Analysis Laboratory

CLIENT:EnvirotechLab Order:0303052Project:EnvirotechLab ID:0303052-05

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



Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

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

Hall Enviro	Hall Environmental Analysis Laboratory	ory						Date: /	Date: <i>14-Mar-03</i>	
CLIENT: Work Order: Project:	Envirotech 0303052 Envirotech						QC SUI	QC SUMMARY REPORT Method Blank	Y REPORT Method Blank	ORT Blank
Sample ID MB-3233 Client ID:	Batch ID: 323		SW7471 Unit: MI-LA254_030311A	Units: mg/Kg)311A		Analysis I SeqNo:		Prep D	at	
Analyte Mercury	Result	PQL 0.033	SPK value	SPK Ref Val	%REC L	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID MB-3254 Client ID:	54 Batch ID: 3254	Test Code: S Run ID: IC	SW6010A ICP_030314B	Units: mg/Kg		Analysis I SeqNo:	Analysis Date 3/14/2003 SeqNo: 173652	Prep D	Prep Date 3/12/2003	03
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC Lo	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic Barium Cadmium Chromium Selenium Silver	0.06754 0.174 0.174 ND ND ND ND	1.0 0.10 0.30 0.25 0.25 0.25								ר ר
Qualifiers:	ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits	ţ	S - Spik R - RPD	 S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits 	cepted recove overy limits	ry limits	B - Analyte detected in the associated Method Blank I	ed in the associ	iated Method	Blank

Laboratory
Analysis
Environmental.
Hall

Date: *14-Mar-03*

CLIENT: Envirotech Work Order: 0303052 Project: Envirotech	ech 2 ech							QC SUN	AMAR' Sar	QC SUMMARY REPORT Sample Duplicate	I te H
Sample ID 0303052-04A Client ID: 25000/CelIU-15 S	Batch ID: 3233	Test Code: SW7471 Run ID: MI-LA25	SW7471 Units MI-LA254_030311A	Units: mg/Kg 0311A		Analysis SeqNo:	Analysis Date 3/11/2003 SeqNo: 172529	03	Prep Dê	Prep Date 3/10/2003	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit Qual	lei
Mercury	Q	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	103	Prep Da	Prep Date 3/12/2003	1
Client ID: 24997/CellGG-17		Run ID:	ICP_030314B			SeqNo:	173661				
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD	RPDLimit Qual	lai
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.	

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

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Hall Environmental Analysis Laboratory	Analysis Labora	ory							Date: 1	Date: <i>14-Mar-03</i>	
CLIENT: Envirotech Work Order: 0303052 Project: Envirotech	म् म्							QC SUMMARY REPORT Sample Matrix Spike	IMAR' Sample	MARY REPORT Sample Matrix Spike	RT pike
Sample ID 0303052-04A	Batch ID: 3233	Test Code:	SW7471	Units: mg/Kg		Analysis	Analysis Date 3/11/2003	003	Prep Da	Prep Date 3/10/2003	
Client ID: 25000/CeiIU-15 S Analyte	Result	Run ID: PQL	MI-LA254_030311A SPK value SPK F	0311A SPK Ref Val	%REC	SeqNo: LowLimit	172530 HighLimit R	0 RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1191	0.033	0.1604	0	74.3	50	150	0			
Sample ID 0303052-04A	Batch ID: 3233	Test Code:	SW7471	Units: mg/Kg		Analysis	Date	003	Prep Da	Prep Date 3/10/2003	
Client ID: 25000/CellU-15 S Analyte	Result	Run ID: PQL	MI-LA254_030311A SPK value SPK F	0311A SPK Ref Val	%REC	SeqNo: LowLimit	SeqNo: 172531 LowLimit HighLimit RPD Ref Val	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1139	0.033	0.1604	0	71.0	50	1500	0.1191	4.52	20	
Sample ID 0303052-01A MS Client ID: 24997/CelIGG-17	Batch ID: 3254	Test Code: Run ID:	SW6010A ICP_030314B	Units: mg/Kg		Analysis SeqNo:	Analysis Date 3/14/2003 SeqNo: 173655	003	Prep Da	Prep Date 3/12/2003	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	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	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			

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B - Analyte detected in the associated Method Blank

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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

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Qualifiers:

Hall Environme	Hall Environmental Analysis Laboratory	tory							Date: 1	Date: 14-Mar-03	
CLIENT: Env Work Order: 0303 Project: Env	Envirotech 0303052 Envirotech							QC SUMMARY REPORT Laboratory Control Spike - generic	AMAR Control	QC SUMMARY REPORT aboratory Control Spike - generic)RT neric
Sample ID LCS-3233 Client ID:	Batch ID: 3233	Test Code: Run ID:	SW7471 Unit	Units: mg/Kg 0311A		Analysis SeqNo:	Analysis Date 3/11/2003 SeqNo: 172526	2003 16	Prep D	Prep Date 3/10/2003	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.172	0.033	0.1625	ο	106	80	120	0			
Sample ID LCSD-3233 Client ID:	Batch ID: 3233	Test Code: Run ID:	SW7471 Unit MI-LA254_030311A	Units: mg/Kg 0311A		Analysis SeqNo:	Analysis Date 3/11/2003 SeqNo: 172527	2003 :7	Prep D	Prep Date 3/10/2003	_
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1625	0	105	80	120	0			
Sample ID LCS-3254 Client ID:	Batch ID: 3254	Test Code: Run ID:	SW6010A ICP_030314B	Units: mg/Kg		Analysis SeqNo:	Analysis Date 3/14/2003 SeqNo: 173653	2003 3	Prep D	Prep Date 3/12/2003	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic Barium	47.09 39.86	1.0 0.10	50 50	0 0.06754	94.2 79.6	02	130	00			
Cadmium	45.96	0.10	50	0	91.9	70	130	0			
Chromium	47.84	0.30	50	0.174	95.3	20	130	0			
Lead	46.55	0.25	50	0	93.1	70	130	0			
Selenium	37.52	1.0	50	0	75.0	20	130	0			
Silver	48.05	0.25	50	0	96.1	70	130	0			

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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J - Analyte detected below quantitation limits

ND - Not Detected at the Reporting Limit

Qualifiers:

CLIENT: Work Order: Project:	Envirotech 0303052 Envirotech							QC SUMMARY REPORT Laboratory Control Spike Duplicate	MMAR Control S	Y REPC pike Dupl	JRT icate
Sample ID LCSD-3254 Client ID:	3254 Batch ID: 3254	Test Code: Run ID:	Test Code: SW6010A Run ID: ICP_030314B	Units: mg/Kg		Analysis SeqNo:	Analysis Date 3/14/2003 SeqNo: 173654	2003 4	Prep D	Prep Date 3/12/2003	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	45.21	1.0	50	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	70	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	

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Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

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Hall Environmental Analysis Laboratory

Sample Receipt Checklist

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Client Name ENV T				Date and Tim	e Receive	3/7/03
Work Order Number 0303052				Received by	AMG	
	0 3/	7/	03 Date			
Matrix:	Carrier name:	<u>Grey</u>	hound			
Shipping container/cooler in good condition?		Yes	\checkmark	No 🗌	Not Present	
Custody seals intact on shippping container/cooler?		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 rece	eived?	Yes		No 🗌		
Chain of custody agrees with sample labels?		Yes	\checkmark	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?	lo VOA vials subr	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 Da	te contacted:			Pers	on contacted	
Contacted by: Re	garding:					
Comments:						
						· · ·
Corrective Action						
	<u> </u>					

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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)
	(((
	(((9)
Arsenic	ND	0.001	5.0
Arsenic Barium		······	
	ND	0.001	5.0
Barium	ND 2.06	0.001 0.001	5.0 100
Barium Cadmium	ND 2.06 0.005	0.001 0.001 0.001	5.0 100 1.0
Barium Cadmium Chromium	ND 2.06 0.005 1.09	0.001 0.001 0.001 0.001	5.0 100 1.0 5.0
Barium Cadmium Chromium Lead	ND 2.06 0.005 1.09 1.50	0.001 0.001 0.001 0.001 0.001	5.0 100 1.0 5.0 5.0
Barium Cadmium Chromium Lead Mercury	ND 2.06 0.005 1.09 1.50 0.003	0.001 0.001 0.001 0.001 0.001 0.001	5.0 100 1.0 5.0 5.0 0.2

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 ⁶
Note:	Regulatory Limits based on 40 GFR part 261 subpart C. C. MAR 2003 section 261.24, August 24, 1998
Comments:	Hilltop, NM NW of U-15.
Analyst	. apuren hristini My Walters

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:		QA/QC		Project #:			N/A
Sample ID:		03-21-TCM	QA/QC	Date Repo			03-22-03
Laboratory Number:		25005		Date Samp	led:		N/A
Sample Matrix:		Water		Date Recei	ved:		N/A
Analysis Requested:		TCLP Metal	s	Date Analy	zed:		03-21-03
Condition:		N/A		Date Extra	cted:		N/A
그는 것 같은 것 같	Instrument		Detectio	San State	Duplicate	2011 - Land Carl Carl Carl Carl Carl Carl Carl Carl	Acceptance
Conc. (mg/L)	Blank	Blank	Limit	Render - Maria Management, de		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	Sampl	e Spiked	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%

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

"kristini My Walters Revie

	CHAIN O	OF CUS	F CUSTODY RECORD	BD	10	10718	•
Client / Project Name Landfor M 2-5	Project Location H:11+0P	P, NM	69	ANALYSIS / PARAMETERS	AETERS		
sampler: KPK	Client No.		ainers P P P			Remarks	÷
Sample No./ Sample Sample Identification Date Time	e Lab Number	Sample Matrix					
5-1 3/15/03/2:30	0 25089	5021			A M A	NW of U-15	
							<u> </u>
						-	
Relingersped by Signature)		Date Time Re 3/15/03 いろ: 多 む	Received by: (Signature)	6		Date Time 3/15/0> 13 30	
Refinquished by: (Signature)			Received by: (Signature)			- -	
Relinquished by: (Signature)		ž.	Received by: (Signature)				
		FOVIDOT	VIDOTECH IOC		Sample	Sample Receipt	· - · · · ·
						Y N N/A	
		5796 U.S. Highway 64	lighway 64		Received Intact	>	
		(505) 632-0615	2-0615		Cool - Ice/Blue Ice		

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District I - (505) 393-6161 New Mexico Y O. Box '1980 Energy Minerals and Natural Resource Hobbs, NM 88241-1980 Energy Minerals and Natural Resource District II - (505) 748-1283 Oil Conservation Division S11 S. First 2040 South Pacheco Street Artesia, NM 88210 2040 South Pacheco Street Y trict III - (505) 334-6178 Santa Fe, New Mexico 87505 Y Rio Brazos Road (505) 827-7131	
REQUEST FOR APPROVAL 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 Sacility LF#2	6. Transporter Enviroture
3. Address of Facility Operator 5796 US Hoby 64 Jarmington, MM 87401	8. State NM
7. Location of Material (Street Address or ULSTR) "D" Sec 3, T3DD, P9W, SJC	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accord Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accord PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. 	mpanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL: Kube oil contaminated soul from illa manifold on drive train. (power ene CWSY MSDS attached.	R near archaust FEB 2003 FEB 2003 ON- DN- ON- DN- ON- DN- ON- DN- ON- DN- ON- DN- ON- ON- ON- ON- ON- ON- ON- O
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) cy
SIGNATURE: <u>Waste Mahagement Facility Authorized Agent</u> TITLE: <u>Provide</u> TYPE OR PRINT NAME: <u>Morcis D. Young</u> TELI	Mt DATE: 7115102
(This space for State Use) APPROVED BY: Deny Form TITLE: Envir APPROVED BY: Marta 924. TITLE: Environment	

Phil Nagle

98059-028



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR

sperso

Date: 5-28-02

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

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Universal Compression 3440 Morningstar Drive	Envirotech Soil Remediation Facility Landfarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name): RIDDLE # 250	Location of the Waste (Street address &/or ULSTR): D' Seco 3 Frun 630N Range BOAW
Attach list of originating sites as appropriate	
4. Source and Description of Waste Lube oil from leak one train, (power end).	- exhaust monital on drive
I, Plus Neg (Print Name)	representative for: do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described v	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
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentation MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tion 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.	laturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	2
Title: Spivisos	

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SEARCH	HE FUTURE FIRST CONOCO HOMEPAGE
0-10	Sance of acar
EL MAR GEO	Search Help Click here for the PDF version
# 1. CHEMICAL PRODUCT/COMPANY IDENTI	FICATION
EL MA MSDS Code: MOTC0055	AR GEO Revision Date: 19-Oct-2000
"EL MAR" is a registered trademark	of Conoco.
Product Use: Natural Gas Er Grade: 15W-40, 30/40 Conoco Blend Codes: 7511, 7512	ngine Oil
Medical Emergency : 1-800-3	2 293-5550 2C 1-800-424-9300 (domestic) 527-3887 (international; call collect)
# 2. COMPOSITION/INFORMATION ON INGR	REDIENTS
3. HAZARDS IDENTIFICATION	
EMERGENCY OVE APPEARANCE / ODOR Light brown liquid / mild petrol OSHA REGULATORY STATUS This material is not known to be Regulations.	
HMIS RATING	

: Lubricants - Material and Safety Data Sheets

Page 2 of 6

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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
    (30/40)265 C (455 F) (Typical) Method: COC(30/40)263 C (505 F) (Typical) Method: COCAutoignition: Not AvailableNFPA 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
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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
      Safequards (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.
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Lubricants - Material and Safety Data Sheets

Page 4 of 6

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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
   PEL.
       (OSHA)
      (ACGIH) : 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3
   TLV
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)
   Density
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
11.
  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
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· Lubricants - Material and Safety Data Sheets

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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
            : No
    Acute
    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).
                         : Petroleum Hydrocarbons.
    Ingredient
                         : Film or sheen upon or discoloration of
    Reportable Quantity
                         . 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
```

Lubricants - Material and Safety Data Sheets

Page 6 of 6

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 Plittrict III - (505) 334-6178 Nio Brazos Road Artesi IV - (505) 827-7131 District IV - (505) 827-7131 District IV - (505) 827-7131 District IV - (505) 827-7131	n Submit Original Plus 1 Čopy to appropriate District Office 98059-028
REQUEST FOR APPROVAL TO ACCEPT	Unursai
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Compression
Verbal Approval Received: Yes No No Kerneduation	5. Originating Site 041000
2. Management Facility Destination for fulty LF#2	6. Transporter Enverotech
3. Address of Facility Operator 5796 US Hwy 64 Farmington, NM 87401	8. State nm
7. Location of Material (Street Address or ULSTR) "H" Sec8, T31 N,	
9. <u>Circle One</u> :	
 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 accordenerator. 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. BRIEF DESCRIPTION OF MATERIAL: Engine oil contaminated spil. CWSA MSDS attached. 	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Estimated Volume cy Known Volume (to be entered by the operation of the second signature of the second signature of the second se	
(This space for State Use)	
APPROVED BY: Deny Fant TITLE: Envive	
APPROVED BY: Maty Shi TITLE: Environme	whil Geologi + DATE: 5/27/03

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• •

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 97410 (505) 334-6178 Fax (505)334-6170

Phil Nagla 98059-028

GARY E. JOHNSON GOVERNOR

Date: 8-28-02

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):
Oxnard #333	SEL 07 TOWN OBIN Range 008W
	~
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
ENG. Oil Contaminatel Soul	
· · ·	
Phil x/a 1	
I, Phil Nagel (Print Name)	representative for:
() () () () () () () () () () () () () (do hereby certify that,
	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
analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
	e august nee benerdaus wests defined shave
and that nothing has been added to the exempt or not	n-exempt non-nazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
	Other (description):
MSDS Information 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.	
Name (Original Signature), 7 A).	2
Name (Original Signature):	
Title: <u>Sapeviso</u>	
mu super a	



MATERIA DATA FE

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

Components Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	

If oil mist is generated, exposure limits 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

110370111

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 NIOSHapproved 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

мррітса	UTE EXPOS	sure cimits								
If oil	mist is	generated,	exp	posure	li	nits	apply	<i>.</i>		
PEL	(OSHA)		5	mg/m3,	, 8	Hr.	TWA			
TLV	(ACGIH)		5	mg/m3,	8	Hr.	TWA,	STEL	10	mg/m3
										0

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

AEL * (DuPont) 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 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 Vapor Pressure Vapor Density % Volatiles Evaporation Rate Solubility in Water Odor Form Color Specific Gravity Density 700-1100 F (371-593 C) Nil >1 (Air = 1) Nil Insoluble Petroleum hydrocarbon (mild) Liquid Amber to Brown 0.88 @ 60 F (16 C) 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.

and a second second

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 Address > Telephone	: MSDS Coordinator : Conoco Inc. : PO Box 2197 : Houston, TX 77252 : 1-281-293-5550

Indicates updated section.

End of MSDS

Istrict J - (505) 393-6161 (2. Box 1980)New Mexicoobbs, NM 88241-1980 Istrict II - (505) 748-1283Energy Minerals and Natural Resource Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131'trict III - (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: 🛄 Non-Exempt: 🙀	4. Generator Compression
Verbal Approval Received: Yes 🗋 No 🔯	5. Originating Site EPNG Com
2. Management Facility Destination Jacility. LF 42	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Hoby 64	8. State NM
7. Location of Material (Street Address or ULSTR)" D" Sec 32, T3IN, R8W, S)C	· · · · · · · · · · · · · · · · · · ·
9. <u>Circle One</u> :	
 B. All requests for approval to accept non-exempt wastes must be acco 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 	n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Used oil contaminated soil.	
cws+msDS attached.	FEB 2003 ONLONG. ON. ONLONGT. 3 COLONGT. 3 COLONGT. 3
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) cy
SIGNATURE: <u>Management Facility Authorized Agent</u> TITLE: <u>PreDid</u> Waste Management Facility Authorized Agent TYPE OR PRINT NAME: <u>MOTTIS</u> <u>J.</u> <u>JOUNG</u> TELE	EPHONE NO. (505) 632-0615

Phil Nagel



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):
	"D" 500 32
	Town 031N Range 008W
	Paner 008W
Attach list of originating sites as appropriate	
4. Source and Description of Waste USSO ENG. OIL Contaminated S	1
USE ENG. OIT Contaminator 5	
1. Mul Nagel	representative for:
I, <u>Plu/ Nage/</u> (Print Name)	
	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
EXEMPT oilfield waste	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no	n-evemot non-hazardous waste defined above
and that nothing has been added to the exempt of ho	
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
\checkmark MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of I	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
<u> </u>	
2)	
Name (Original Signature):	
•	
Title: Super Sov	

Date: 8-28-02



EL MAR 3000 ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Gr	ad	е
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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

Components Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	

If oil mist is generated, exposure limits 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.

202 C (396 F) (SAE 30)

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point

Method Flash Point	204 C (399 F) (SAE 40) 193 C (379 F) (SAE 15W-40) Pensky-Martens Closed Cup - PMCC. 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.

HANDLING AND STORAGE

Handling (Perscnnel)

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 NIOSHapproved 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)

AEL * (DuPont) 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 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 Vapor Pressure Vapor Density % Volatiles Evaporation Rate Solubility in Water Odor Form Color Specific Gravity Density 700-1100 F (371-593 C) Nil >1 (Air = 1) Nil Insoluble Petroleum hydrocarbon (mild) Liquid Amber to Brown 0.88 @ 60 F (16 C) 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.

and the second second

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 NFPA Rating	
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.

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.

	for MSDS	S : MSDS Coordinator
Address		: Conoco Inc.
>		: PO Box 2197
>		: Houston, TX 77252
Telephone		: 1-281-293-5550

Indicates updated section.

j,

End of MSDS

Kieling, Martyne

From:Kieling, MartyneSent:Monday, February 24, 2003 3:11 PMTo:'Lany Jackson'Cc:Foust, DennySubject: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.

strict I - (505) 393-6161 New	Mexico		Form C-13
bbs, NM 88241-1980 Energy Minerals and Nati	ural Resources Dep	artment	Originated 8/8/
utice II - (505) 748-1283 Oil Conserva	ation Division		
S. First 2040 South	Pacheco Street		Submit Origi
	Mexico 87505		Plus 1 Co to appropri
c, NM 87410 (505) 8	27-7131		District Off
<u>trict IV</u> - (505) 827-7131	9	8059-028	· •
REQUEST FOR APPROVAL	TO ACCEPT SOLID	WASTE	
		Universa	l .
1. RCRA Exempt: Non-Exempt:		Generator Compres	Wins !!!
Verbal Approval Received: Yes No V		Originating Site	ia
2. Management Facility Destination Facility, LF#	enediation 6. 1	Transporter Envirot	tech
3. Address of Facility Operator 5796 US Hoby 64 Janmington, NM	87401 8. 5	State MM	
7. Location of Material (Street Address or ULSTR) "C" Se	L3, T30N,		
9. <u>Circle One</u> :			
A. All requests for approval to accept oilfield exempt wa	stes will be accompanie	d by a certification of wa	ste from the
Generator; one certificate per job.		••	
Generator; one certificate per job. B. All requests for approval to accept non-exempt wast			
Generator; one certificate per job. B. All requests for approval to accept non-exempt wast PROVE the material is not-hazardous and the Generation			
Generator; one certificate per job. B. All requests for approval to accept non-exempt wast			
Generator; one certificate per job. B. All requests for approval to accept non-exempt wast PROVE the material is not-hazardous and the Generation	ator's certification of origi	in. No waste classified h	
Generator; one certificate per job. B. All requests for approval to accept non-exempt wast PROVE the material is not-hazardous and the General listing or testing will be approved. All transporters must certify the wastes delivered are only	ator's certification of origi	in. No waste classified h	
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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

98059-028

Phil Nagel

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):
	C"SEC 03
Howall J #44A	C'SEC O3 TOWA 030N RANGE DOBW
	RADUE DOBW
Attach list of originating sites as appropriate	12A1V60
4. Source and Description of Waste USED GNG O. 1 Con tam nete	1501
VIDD DAG OII CONTAINT	
PI-INI I	
1,	representative for:
	do hereby certify that,
according to the Resource Conservation and Recove	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	· · · · · · · · · · · · · · · · · · ·
EXEMPT oilfield waste	MPT oilfield waste which is non-hazardous by characteristic r by product identification
	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	ation is attached (check appropriate items):
$\mathbf{X}_{\mathbf{A}}$ 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.	

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 Transport Emergency Medical Emergency

1-281-293-5550 CHEMTREC 1-800-424-9300 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	

If oil mist is generated, exposure limits 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.

202 C (396 F) (SAF 30)

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point

193 C (379 F) (SAE 15W-40)		204 C (399 F) (SAE 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)		
257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)	Method	
229 C (444 F) (SAE 15Ŵ-40)	Flash Point	
		257 C (495 F) (SAE 40)
Method Cleveland Open Cup - COC.		
	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

141372333

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

HANDLING AND STORAGE

Handling (Perscnnel)

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 NIOSHapproved 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 LimitsIf oil mist is generated, exposure limits apply.PEL (OSHA)5 mg/m3, 8 Hr. TWATLV (ACGIH)5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

AEL * (DuPont) 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 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 Vapor Pressure Vapor Density % Volatiles Evaporation Rate Solubility in Water Odor Form Color Specific Gravity Density 700-1100 F (371-593 C) Nil >1 (Air = 1) Nil Insoluble Petroleum hydrocarbon (mild) Liquid Amber to Brown 0.88 @ 60 F (16 C) 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 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

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.

or MSDS : MSDS Coordinator	
: Conoco Inc.	
: PO Box 2197	
: Houston, TX 77252	
: 1-281-293-5550	
	: Conoco Inc. : PO Box 2197 : Houston, TX 77252

Indicates updated section.

End of MSDS

District I 1625 N. French Dr., Hobbs, NM 88240 Different II Energy Minerals and Natural Reson	Form C-13 Urces Revised March 17, 199
1304 W. Grand Avenue, Artesia, NM 88210Oil Conservation DivisionDistrict III000 Rio Brazos Road, Aztec, NM 874101220 South St. Francis Dr.	Submit Origin Plus 1 Cop to Appropria District Offic
1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505	
REQUEST FOR APPROVAL TO ACCE	PT 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. Circle One:	
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	classified hazardous by listing or testing will be
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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW NEXICO 87410 (005) 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:
THEIFTWAY COCFERDION)	Envirotech Soil Remediation Facility
THEIFTWAY CORFERENTION) SOI AREPORT DZ	Landfarm #2
FARMINGTON, NM	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	SAME
THEIFIWAY REFINERY WEST HAMMOND RD.	
BLOOMFIELD N.M.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Parazin PEODUCED IN REFININ	ng lizoerss
1, MIKE BEAUDORANT (Print Name) THENETWAY CORP.	representative for:
THEN DAM (COZO	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 i	Naste is: (Check appropriate classification)
EXEMPT oilfield waste	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	1-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentat	tion is attached (check appropriate items):
MSDS Information	\checkmark Other (description):
RCRA Hazardous Waste Analysis	PAZROFIN
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.	
··· ··· · · · · · · · · · · · · · · ·	
Name (Original Signature)	Jenn min

Title: FIELD LECH.	Title:	FIELD LECH.	

3-5-02 Date:

...

^a<u>District 1</u>^{-*} <u>1625 N. French Dr., Hobbs, NM 88240</u> <u>District III</u> <u>1301 W. Grand Avenue, Artesia, NM 88210</u> <u>District III</u> <u>1000 Rio Brazos Road, Aztec, NM 87410</u> <u>District IV</u> <u>1220 S. St. Francis Dr., Santa Fe, NM 87505</u> 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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: 🗌 Non-Exempt: 🖾	4. Generator: Halliburton Energy Services
Verbal Approval Received: Yes 🗌 No 🛛	5. Originating Site: Wash Bay
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. <u>Circle One</u>:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

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

BRIEF DESCRIPTION OF MATERIAL:

Continuation of Wash Bay solids.

CWS, Reaffirmation, and TCLP dated 6/3/02 attached.



cy

031803-

Estimated Volume <u>75</u> cy Known Volume (to be entered by the operator at the end of the haul)

CP: SIGNATURE/ narea Waste Management Facility Authorized Agent

TITLE: Environmental Administrative Assistant DATE: 02/20/03

TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615

(This space for State Use)		
APPROVED BY: Deny taug	TITLE: Envivo/Engr	DATE: 3/06/03
APPROVED BY: March 15	TITLE: Environmental Carlon's-	DATE: 3/ 10/03
	<i>J</i>	

Feb-07-03 08:50 From-HALLIBURTON E	NG SVCS	+5053243566	T-396	P.002/002	F-117
• •)	·		
		I			
NEW MEXICO ENI	ERGY, MID	IERALS			ERVATION D(V) DISTRICT OFFIC
& NATURAL RESC	DURCES D	EPARTMENT	<u> </u>	AZTEC, N	10 BRAZOS ROA JEW MEXICO 87 178 Fax (806)33
GARY E. JOHNSON governor				•	ER A. SALISBU ET SECRETAR
approx	іолте <i>(</i>	DF WASTE	CTATHO	•	
CERTIF		JE VVASIE	STATU		
					
1. Generator Name and Address: Hallowton Guer 4189 Emoin Ct	a Calier	2. Destination Nam Envirotech Soil	10: Remodiation	Feeility	
Halleburton aver	Jyse wills	Landfarm #2	Remediation	Factities	
4184 Emon a	(A'ha	Hilltop, New Me	xico		
farmington an	n 87.402	1			
3. Originating Site (name):		Location of the Was	-	s &/or ULS	FR):
Wech Bras	mu	As abor	re.		
Work By S		U = 0	· • •		
Atoling	Anna				1
Attach list of originating sites as appro	priate			A A A	
4. Source and Description of Waste	3	-	1114		
· ·			AND MA		
			AN MA	R 2003	
		•	E La	- SRI	
					<u></u>
Rain	Cak		* 2212 nr	01-01-11-01-01	
1. Darney	t Name)		repres	sentative for	
	Pro Cr	ren Ser.	Un do	hereby cer	tify that,
according to the Resource Conserva	tion and Recove	iny Actarickal and En	vironmental Prot	ection Agen	cy's July,
1988, regulatory determination, the	abovo described	waste is: (Check approp	niate classification)		
				ala hu ahara	
EXEMPT oilfield waste		NPT oilfield waste whi r by product identificat		ous by chara	
	-	• -		,	
and that nothing has been added to t	the exempt or no	n-exempt non-hazardo	us waste defined	l above.	· .
For NON-EXEMPT waste the follo	wing documents	ation is attached (chec	k appropriate itel	ms):	
MSDS_Information	(Other	(description):		
RCRA Hazardous W	aste Analysis				
Chain of Odstody		····		·	
- T					
This waste is in compliance with Reg	ulated Levels of	Naturally Occurring Ra	dioactive Materia	al (NORM)	pursuant
to 20 NMAC 3.1 subpart 1403.C and	10	^			· •
		<u> </u>			
Name (Original Signature):(Ty				
Airla	$\leq \ell$				
Title: Maintensace	<u></u>	or many			
17.1)Z				
Date:					

08:50

From-HALLIBURTON ENG SVCS



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 TCL	P 613/02
Printed Nan	ne torney Cosk
Title / Agend	Manilenan Supervisor
Address	4109 E. Main St
	farming ten NM.
Signature	Sylan
Date	2-7-03

PRACTICAL SOLUTIONS FOR A BETTER TOMORIOW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Sludge	Date Reported:	06-06-02
Lab ID#:	22848	Date Sampled:	06-03-02
Sample Matrix:	Soil	Date Received:	06-03-02
Preservative:	Cool	Date Analyzed:	06-04-02
Condition:	Cool and Intact	Chain of Custody:	9938
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 7.72	
REACTIVITY:	Negative		
RCRA Hazardous Waste Crite	ria		
Parameter	Hazardous Waste Criterion		
IGNITABILITY:		s defined by 40 CFR, Subpart C, Sec act contact with flame or flash point <	
CORROSIVITY:	•	s defined by 40 CFR, Subpart C, Sec 2.0 or pH greater than or equal to 12.	
REACTIVITY:	(i.e. Violent reaction with wate	defined by 40 CFR, Subpart C, Sec. er, strong base, strong acid, or the ge ses at STP with pH between 2.0 and	neration
Reference:	40 CFR part 261 Subpart C s	ections 261.21 - 261.23, July 1, 1992	2.
Comments:	4109 E. Main.		

Walters Analyst

Review

ENTERED JUL 1 0 2002

PRACTICAL SOLUTIONS FOR A BETTLER TOMORROW

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

		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:

Analyst

Watters m Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

D	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	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:

Analyst

Walter Molin Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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.

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:

Analyst

M Walters Mis time Review

PRACTICAL SOLUTIONS FOR A BETHER TOMOBILOW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

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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	

ND - Parameter not detected at the stated detection limit.

ND

ND

ND

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.

0.001

0.001

0.001

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

Note:

Mercury

Silver

Selenium

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

Comments:

Analyst

Weter Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

· · · · ·	1	•	
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
		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 Acce	ptance Criteria	Parameter	Percent Recovery	
		Fluorobenzene	100%	
		1,4-difluorobenzene	100%	
		4-bromochlorobenzene	100%	
References:	Method 1311, Toxicity C	haracteristic Leaching Procedure, SW-8	46, USEPA, July 1992.	
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA, S	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:

Analyst

'hrist m Walters Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	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
	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:

Analyst

<u>kristu</u> Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

	<u>.</u>	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:

Analyst

)alters Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	06-07-02
Laboratory Number:	22848			Date Sample	ed:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	06-07-02
Condition:	N/A			Date Extracte	ed:	06-04-02
			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	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:

Analyst

Mistin Dalters

PEACTICAL SOLUTIONS FOR A BETTIER TOMORROW

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
	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

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.

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

Note:

Comments: QA/QC for sample 22848.

Analyst

m Walter pristue Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

2 11			
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 Recove	eries: Parameter	Percent Recovery
	2-Fluorophenol 2,4,6-Tribromophenol	99% 99%
References:	Method 1311, Toxicity Characteristic Leaching Pro Waste, SW-846, USEPA, July 1992.	ocedure Test Methods for Evaluating Solid
	Method 3510, Separatory Funnel Liquid-Liquid Ex Waste, SW-846, USEPA, July 1992.	traction, Test Methods for Evaluating Solid
• .	Method 8040, Phenols, Test Methods for Evaluation	ng Solid Waste, SW-846, USEPA, Sept. 1986
Note:	Regulatory Limits based on 40 CFR part 261 subp	art C section 261.24, July 1, 1992.
Comments:	QA/QC for sample 22848.	
Analyst	l.april	Mistin Moeters Review

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PRACTICAL SOLUTIONS FOR A BETTIER TOMORIOW

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

Doromotor	Sample Result	Duplicate Result	Detection Limit	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	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 Accep	tance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	haracteristic Leaching Procedure Test	Methods for Evaluating Solid
	Method 3510, Separator Waste, SW-846, USEPA	y Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wast	te, 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. aplum	<u>Aristi.</u> Review	in Walter

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	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)
Falameter	(iiig/L)	(mg/L)	(iiig/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 Accept	ance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	95%
References:	Method 3510, Separato	Characteristic Leaching Procedure, S ry Funnel Liquid-Liquid Extraction, S natics and Cyclic Ketones, SW-846,	SW-846, USEPA, July 1992.
Note:	Regulatory Limits based	l on 40 CFR part 261 Subpart C sec	ction 261.24, July 1, 1992.
Comments:	QA/QC for sample	22848.	
·			
Analyst	C. apun	Review	stine my Walters

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	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.

QA/QC Acceptance Criteria		Parameter	Percent Recovery			
	· ·	2-fluorobiphenyl	97%			
References:	Method 1311, Toxicity	icity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.				
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.					
	Method 8090, Nitroaror	natics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.			
Note:	Regulatory Limits base	nits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.				
Commonts	$\Omega \Lambda / \Omega C$ for sample					

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Pyriding	ND	ND	0.09/	0 020	
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)	
	Result	Result	Percent	Limit	
	Sample	Duplicate		Det.	
	· · · · ·	Analysis Reque	sted:	TCLP	
Condition:	N/A	Date Analyzed:		06-07-02	
Preservative:	N/A	Date Extracted:		06-04-02	
Sample Matrix:	TCLP Extract	Date Received:		N/A	
Laboratory Number:	22848	Date Sampled:		N/A	
Sample ID:	Matrix Duplicate	Date Reported:		06-07-02	
Client:	QA/QC	Project #:		N/A	

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:	erences: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Ju					
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.					
	Method 8090, Nitroaror	matics and Cyclic Ketones, SW-846, I	JSEPA, Sept. 1986.			
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sect	ion 261.24, July 1, 1992.			
Comments:	QA/QC for sample	22848.				

Analyst

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PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW

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

Client:		QA/QC		Project #:			N/A	
Sample ID:		06-06-TCN	06-06-TCM QA/QC		Date Reported:		06-06-02	
Laboratory Number:		22848		Date Samp	oled:		N/A	
Sample Matrix:		TCLP Extra	act	Date Rece	ived:		N/A	
Analysis Requested:		TCLP Meta	ls	Date Analy	zed:		06-06-02	
Condition:		N/A		Date Extra			06-04-02	
Blank & Duplicate	Instrument	Method	Detection	Sample	Duplicate	%	Acceptance	
Conc. (mg/L)	Blank	Blank	Limit			Difference	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	(2.41)	Spike	Sample	Spiked	Percent		Acceptance	
Conc. (mg/L)		Added		Sample	Recovery		Range	
		0.500			00.0%		000/ 4000/	
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%	

Mercury0.050ND0.04998.0%Selenium0.500ND0.49799.4%Silver0.500ND0.49999.8%

0.479

0.500

ND - Parameter not detected at the stated detection limit.

References:

Lead

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

0.977

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

6) alter Review

99.8%

80% - 120%

80% - 120%

80% - 120%

80% - 120%
V Volume V V	Evergy Savu Me la 3. 22 gnature)	C C C C C C C C C C C C C C C C C C C	Project Location 4 to 9 E k Client No. 2 S 8 4 8 2 S 8 4 8		Hece Hece Vo. of Containers Containers Containers Containers	ANALYSIS / PARAMETERS		Remarks Date	
Heinquished by: (Signature)	ine)	\land		کە:S1 20. 8.9	Received by: (Signature)	- Up	<i>a</i>	13/02	50-51
Relinquished by: (Signature)	ure)				Received by: (Signature)				
				ENVIROT	VIROTECH INC		Sample Receipt	Receipt	
				5796 U.S.	5796 U.S. Highway 64		Received Intact	- 7	N/N
				(505) (505)	(505) 632-0615		Cool - Ice/Blue Ice)	

09938

CHAIN OF CUSTODY RECORD

'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

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

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: 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. 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:

Í

Fluids cleaned up at accident site.

CWS and analytical attached.



су

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

SIGNATURE Junder R. helpson TITLE: Environmental Administrative Assistant	DATE: <u>04/05/02</u> പ
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	131803 -
(This space for State Use) APPROVED BY: A Count TITLE: Envirol Engr DATE:	03/05/03
	03/10/03

. '

ARY E. JOHNSON	MAR 2003 JENNIFER A. SALISB
GOVERNOR	CABINET SECRETA
	R The M. J
CERTIFICATE	OF WASTE STATUS
	Call 61 Obstation
1. Generator Name and Address: BJ Services 3250 Southside River Road	2. Destination Name:
	Envirotech Soil Remediation Facility Landfarm #2
FARMINGTON, New Mexico	Hilltop, New Mexico
3. Originating Site (name): Mile Morser 84, Hyperay 64	Location of the Waste (Street address &/or ULSTR):
New Maper	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	O F E T
Fluids clean of mys of acc	ulting siles
1. Les Baugh	representative for:
PT (Print Name)	
BJ Scrycce (Print Name) according to the Resource Conservation and Reco	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
BJ Scryices	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
BJ Scyles (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic
BJ Scyles (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification)
BJ Scyles (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification
BJ Scrvices (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, wery Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above.
BJ Creyice (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, wery Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above.
BJ Creyice (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste NON-EX analysis and that nothing has been added to the exempt or For NON-EXEMPT waste the following document	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above.
BI Crevice (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above.
BJ SCYLCE (according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste Source Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste Source Conservation and Reco analysis and that nothing has been added to the exempt or For NON-EXEMPT waste the following documer MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	do hereby certify that, wery Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EEMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. ntation is attached (check appropriate items): Other (description):
BJ SCYLCE (according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste Source Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste Source Conservation and Reco analysis and that nothing has been added to the exempt or For NON-EXEMPT waste the following documer MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above.
BI Cryice (Print Name) according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, wery Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) EEMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. ntation is attached (check appropriate items): Other (description):

		CHAIN OF			
Client / Project Name	l'iur,	Project Location		ANALYSIS / PARAMETERS	METERS
Sampler: ME/1, 55,4 M. Housey	l. House	Client No. 950	95026-091f	o. of lainers -f-	Remarks
Sample No./ Identification	Sample Sample Date Time	ole Lab Number	Sample Matrix		
BJ-SPI1-1	4/5/02 1200	22463	Soil) -	an Ice
BJ-Spill - Z	4/5/02 1216		201	3 -	ON ICE
BJ-5pill-3	4/5/02 1350		Soil	>	04165
				3	: : : :
	5 1		•		
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Relinquished by: (Signature)	.e)		Recei	Received by: (Signature)	
			FOVIDOTEC	CH INC	Sample Receipt
				二次 王振の方 かみ	Y N N/A
			5796 U.S. Highway 64	hway 64	Received Intact
			(505) 632-0615	0615	Cool - Ice/Blue Ice

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

р		Det.
	Concentration	Limit
Parameter	(mg/Kg)	(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:

f Analyst

<u>Mistr</u> Review m Weeters

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

		Det.
	Concentration	Limit
Parameter	(mg/Kg)	(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

of Waters <u>Christin</u> Review

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

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

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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 Chlori	de	Date Received:		N/A
Preservative:	•		Date Analyzed:		04-08-02
Condition:	N/A		Analysis Requested:		ТРН
	HC-FILIPFER		્ય (દન ા) સારો સંસ્થ	%ipiliq.%	Accept Range
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 Conc. (mg/L=mg/Kg	tananan Manananan Mananananan tananan Manananananananananananananananan		a sa ang ang ang ang ang ang ang ang ang an	DelectionsLim	
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc- (mg/Kg)	Semele	IDualitate	%Diference	Accept Range	
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	1.7	1.7	0.0%	0 - 30%	
Spike Conce (mg/Kg)	ল ল স্পো লাল	Statike Addielerer	Stell Restille	% Recovery	Accept Ranger
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.

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	CHAIN OF	= CUST(F CUSTODY RECORD		08994	· •
Client/Project Name BJ Sacus Ces	Project Location HWY 64, Blanco NM	zaco Niy	ANALY	ANALYSIS / PARAMETERS	S	
sampler: KPK	Client No. 95026-0	00 d	ainers ور الح اج مرارح		Remarks	
Sample No./ Sample Sample Identification Date Time		Sample Matrix	tnoD			
Composite 4/8/12 1140	22470	50: (<u> </u>			
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		(505) 632-0	615	Cool - I	Cool - Ice/Blue Ice	

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

"Wister of Water Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:		QA/QC		Project #:			N/A
Sample ID:		04-09-TM	QA/QC	Date Repo			04-09-02
Laboratory Number:		22470		Date Sam	oled:		N/A
Sample Matrix:		Soil		Date Rece	ived:		N/A
Analysis Requested:		Total RCR/	A Metals	Date Analy	/zed:		04-09-02
Condition:		N/A		Date Dige	sted:		04-09-02
				-			
Blank & Duplicate					Duplicate	Diff.	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		Spike	Samol	e spikeel	Percent-		Acceptance
S. Conc. (mg/Kg)		Added		Samole	Recovery	1 1 1	Range
Arsenic		0.500	0.041	0.539	99.6%		80% - 120%
Barium		0.500	3.08	3.57	99.7%		80% - 120%
Cadmium		0.500	0.042	0.540	99.6%		80% - 120%
Chromium		0.500	0.907	1.40	99.5%		80% - 120%
Lead		0.500	0.617	1.11	99.4%		80% - 120%
Mercury		0.050	ND	0.049	98.0%		80% - 1 20%
Selenium		0.500	0.012	0.511	99.8%		80% - 12 0%
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 22470.

Analyst

<u>Christe</u> Beview of Walter

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

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

REQUEST FOR APPROVAL TO ACCEPT 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 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:

Diesel fuel contaminated soil.

CWS and MSDS attached.



Estimated Volume 2_cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Hanagement Facility Authorized Agent TITLE: Environmental Administrative Assistant	DATE: <u>06/06/02</u>
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	0 3 I 80S
(This space for State Use)	
APPROVED BY: Demy fount TITLE: Enviro/Engr DATE:	03/05/03
APPROVED BY: Manuelle TITLE: Environmentel 6 cologist DATE:	3/10/03

05/06/2002 13:48 5055340114	EADS FARMINGTUN	PAGE 6
8- 8-02:11:04AM;ENVIROTECH		6321885 # 2/ 2058-01
NEW MEXICO ENERGY, M & NATURAL RESOURCES	INERALS	OIL CONSERVATION DIV AETED DISTRICT DFF 1999 RIG WRAZOS RO AZTEC, NEW MEXICO 4 (\$05) 314-8176 Fax (\$08)3
GARY E. JOHNSON GOVERNOR	MAR 2003	JENNIFER A. SALISBI CABINET SECRETA
CERTIFICATE	Ed a state have a	U S
1. Generator Name and Address:	2. Destination Name: Bnvirotech Soll Remediat Landfarn #2 Hilltop, New Mexico	ion Facility
ENERGY ATE LATILING		ddress &/or ULSTR):
3. Originating Site (name): S.J. 32-8 #21A	Location of the Waste (Street a SW14, SE14	n,R8W
Attach list of originating sites as appropriate		6-nm
4. Source and Description of Waste DIESTL FUELIND	IRT	
ALON LI DALKE		representative for:
according to the Resource Conservation and Re 1988, regulatory determination, the above descri	cevery Act (RCRA) and Environmente	do hereby certify thet I Protection Agency's July pation
EXEMPT olifield waste	EXEMPT oilfield waste which is non-h sis or by product identification	
and that nothing has been added to the exempt	or non-exempt non-hezerdous waste d	lefined above.
For NON-EXEMPT waste the following docum MSDS Information RCRA Hazardous Waste Analys Chain of Custody	Other (descriptio	ite İtama): n):

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.

Ð Name (Original Signature): 0 Title: M & ช 0-21-0 Date:

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C EV

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

MATERIAL SAFETY DATA SHEET

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

BECTION 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).



NFPA 704 SYMBOL

SECTION 2 - EXERCISE INGREDIENTS

APPROX.						
	CAS NO.	VOL &	TLV	STEL	PEL (OSHA)	IDLH
DIESEL FUEL (containing)			NA	NA	NA	NA
Naphalene	91-20-3	1	10 ppm	na	10 ppm	250

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°FSPECIFIC GRAVITY (WATER=1): 0.7-0.8VAPOR PRESSURE: 0100°F 25mm Hg% VOLATILE BY VOLUME: N/AVAPOR DENSITY (AIR=1): N/A% VOLATILE BY VOLUME: N/ASOLUBILITY IN WATER: InsolubleAUTOIGNITION RATE: No data availableODOR THRESHOLD: N/AAUTOIGNITION TEMP: 490-546°FODOR THRESHOLD: N/AOily, petroleum odor. May be dyed red inoff road usage (agricultural, mining, etc.).Oily, petroleum odor. May be dyed red in

06/06/2002 13:45 5055340114

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HIGH SULFUR DIESEL FUEL

ELECTION - PRECAUTIONS FOR SATE BANDLING 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 hydroger sulfide may occur in vapor spaces of confined spaces where this product is handled, stored or used.

SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION - EMPLIS

- 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.
- 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) EXERGENCY 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, Artesía, 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

Same Sul Act to

REQUEST FOR APPROVAL TO ACCEPT 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 a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

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

BRIEF DESCRIPTION OF MATERIAL:

Wash bay water and sludge.

CWS and TCLP attached.

APPROVED BY:

APPROVED BY:



cy

DATE: <u>C</u>

DATE: 0

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

SIGNATURE <u>Fandual R. Sackson</u> TITLE: <u>Environmental Administrative Assis</u> Waste Management Facility Authorized Agent	tant DATE: <u>08/01/02</u> ما
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	2,863- 2,863-
(This space for State Use)	

TITLE: Enviro/ Engt

Date: 8-1-02

/_____

	DEPARTMENT 23456 AZTEC. NEW MEXICO
GOVERNOR	MAR 2003 OF WASTESTATUS
	CCCC 02. 61. 01. 1. 1. 2. 2. 1.
1. Generator Name and Address: UNIVERSAL COMPRESSION, INC. 3440 MORNINGSTAR DRIVE BARMINGTON, NM 87401	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): UNIVERSAL COMPRESSION, INC. 3440 MORNINGSTAR DRIVE FARMINGTON, NM 87401	Location of the Waste (Street address &/or ULSTR): (Washbay)
WATER AND SLUDGE FROM WASHBAY	
	representative for:
Print Name) UNIVERSAL Compression (Print Name) UNIVERSAL Compression according to the Resource Conservation and Recov	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
I, <u>Decelas N.</u> <u>Clapper</u> (Print Name) <u>UNIVERSAL</u> <u>Compression</u> according to the Resource Conservation and Recov 1988, regulatory determination, the above described EXEMPT oilfield waste <u>X</u> NON-EXE	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
I, <u>Decelas N.</u> <u>Clapper</u> (Print Name) <u>UNIVERSAL</u> <u>Compression</u> according to the Resource Conservation and Recov 1988, regulatory determination, the above described EXEMPT oilfield waste <u>X</u> NON-EXE	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification
L. Deuglas N. Clapper (Print Name) (Diversal Compression according to the Resource Conservation and Recov 1988, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE analysis	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification ion-exempt non-hazardous waste defined above.
I. DougLAS N. CLAPPEN (Print Name) UNIVENSAL Compression according to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or re- for NON-EXEMPT waste the following document MSDS Information X RCRA Hazardous Waste Analysis X Chain of Custody	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. tation is attached (check appropriate items):

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #:	98059-010
Sample ID:	Wash Bay Sludge	Date Reported:	09-10-02
Lab ID#:	23776	Date Sampled:	09-06-02
Sample Matrix:	Sludge	Date Received:	09-06-02
Preservative:	Cool	Date Analyzed:	09-10-02
Condition:	Cool and Intact	Chain of Custody:	10222
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 6.97	
REACTIVITY:	Negative	· · ·	
RCRA Hazardous Waste Criteria			
Parameter	Hazardous Waste Criterion		
IGNITABILITY:		defined by 40 CFR, Subpart C, Sec. 261.21. ct contact with flame or flash point < 60° C.)	
CORROSIVITY:	Characteristic of Corrosivity a	s defined by 40 CFR, Subpart C, Sec. 261.22.	
	(i.e. pH less than or equal to 2	2.0 or pH greater than or equal to 12.5)	
REACTIVITY:		defined by 40 CFR, Subpart C, Sec. 261.23.	
	•	r, strong base, strong acid, or the generation ses at STP with pH between 2.0 and 12.5)	
Reference:	40 CFR part 261 Subpart C se	ections 261.21 - 261.23, July 1, 1992.	
Commonts:	3440 Morning Star		

Comments:

3440 Morning Star.

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Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

······		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)	0.0018	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:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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)
	(((9, _/
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:

Analyst

n Walters Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral 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 and Intact	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	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:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

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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 Analyzed:	09-23-02
Preservative:	Cool	Date Extracted:	09-11-02
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.016	0.001	5.0
Barium	2.84	0.001	100
Cadmium	0.004	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.002	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.004	0.001	1.0

ND - Parameter not detected at the stated detection limit.

ND

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.

0.001

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

Note:

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

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: Sample ID:	QA/QC Laboratory Blank 09-23-TCV	Project #: Date Reported: Date Sampled:	N/A
Laboratory Number: Sample Matrix:	Water	Date Received:	N/A
Preservative: Condition:	N/A N/A	Date Analyzed: Analysis Requested:	09-23-02 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 5030, Purge-and-T	rracteristic Leaching Procedure, SW-8 Trap, SW-846, USEPA, July 1992. I Volatile Organic, SW-846, USEPA, S	
	•	latile Organics, SW-846, USEPA, Sep	•
Note:	Regulatory Limits based or	n 40 CFR part 261 Subpart C section	261.24, July 1, 1992.

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

	Concentration	Detection Limit	Regulatory Limits	
Parameter	neter (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.
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Note:

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

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Dupli	cate	Date Reported:	09-23-02
Laboratory Number:	23776		Date Sampled:	N/A
Sample Matrix:	TCLP Extrac	st	Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	09-23-02
Condition:	N/A		Date Extracted:	09-09-02
······		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)	0.0018	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:

Analyst

m Walters Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	09-23-02
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

			Spiked			SW-846
	Sample	Spike	Sample Result	Det. Limit	Percent	% Rec.
	Result	Added				Accept.
Parameter	(mg/L)	(mg/L)	(mg/L) (mg/L)		(mg/L) Recovery	
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:

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client: Sample ID: Laboratory Number:	QA/QC Laboratory Blank 09-23-TCA	Project #: Date Reported: Date Sampled:	N/A 09-23-02 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	C	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 23776.

Analyst

Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-23-02
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 Recove	ries: Parameter	Percent Recovery
	2-Fluorophenol 2,4,6-Tribromophenol	99% 99%
	Method 1311, Toxicity Characteristic Leaching Procedu Waste, SW-846, USEPA, July 1992.	re Test Methods for Evaluating Solid
	Method 3510, Separatory Funnel Liquid-Liquid Extractic Waste, SW-846, USEPA, July 1992.	on, Test Methods for Evaluating Solid
	Method 8040, Phenols, Test Methods for Evaluating So	lid 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	P. april Ch Revie	nistin my Walters

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

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS **Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-23-02
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 Accer	otance Criteria:	Parameter	Maximum Difference
<i>I</i>		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	haracteristic Leaching Procedure Test A, July 1992.	Methods for Evaluating Solid
	Method 3510, Separator Waste, SW-846, USEPA	y Funnel Liquid-Liquid Extraction, Test , July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wast	e, 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

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	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

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Note:

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

Comments:

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

	01/00	Drois at #	N1/A
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

•	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 Accep	tance Criteria	Parameter	Percent Recovery		
		2-fluorobiphenyl	101%		
References:	Method 3510, Separato	Characteristic Leaching Procedure, S ry Funnel Liquid-Liquid Extraction, S natics and Cyclic Ketones, SW-846,	W-846, USEPA, July 1992.		
Note:	Regulatory Limits based	l on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.		

Comments:

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-23-02
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 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	0.115	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.

QA/QC Accepta	nce Criteria	Parameter	Maximum Difference				
· .		8090 Compounds	30%				
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.						
	Method 3510, Separato	ory Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.				
	Method 8090, Nitroaror	natics and Cyclic Ketones, SW-846,	JSEPA, Sept. 1986.				
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sect	ion 261.24, July 1, 1992.				

Comments:

Analyst

Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:		QA/QC		Project #:			N/A		
		09-23-TCM QA/QC		•					
Sample ID:			VI QA/QC	Date Repo			09-23-02		
Laboratory Number:		23776		Date Sam	pled:		N/A		
Sample Matrix:		TCLP Extr	act	Date Rece	eived:		N/A		
Analysis Requested:		TCLP Met	als	Date Analy	yzed:		09-23-02		
Condition:		N/A		Date Extra	icted:		N/A		
Blank & Duplicate	Instrumen	Method	Detectio	on. Sample	Duplicate	e %	Acceptance		
Conc. (mg/L)	Blank	Blank	Limit			Difference	Range		
Arsenic	ND	ND	0.001	0.016	0.016	0.0%	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	e Spiked	Percent		Acceptance		
Conc. (mg/L)		Added	cample	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%		

			01010	00.070	00/0 - 120/0
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:

Analyst

m Walters

10222	TERS	Remarks							9 / Parlow Provide	2 7 7 7 7		Sample Receipt	Y, N N/A	Received Intact	Cool - Ice/Blue Ice
CHAIN OF CUSTODY RECORD	Client / Project Name Project Location UNIVERSAL ANALYSIS / PARAMETERS	Client No. PBOSP - O (O	Sample Lab Number Sample 2 Time Lab Number Matrix	S 04268 05:30 20					Relinquished by: (Signature) Pate Time Received by: (Signature)	Relinquished by: (Signature) Received by: (Signature)	Relinquished by: (Signature) Received by: (Signature)	ENVIROTECH INC.	「東京」「古村市」「東京市」「町町町町町町町町町町町町町町町町町町町町町町町町町町町町町町町町町町町町	5796 U.S. Highway 64 Farmington, New Mexico 87401	

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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

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

Submit Original Plus 1 Čopy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: 🗌 Non-Exempt: 🖾	4. Generator: Dial Oil Co.
Verbal Approval Received: Yes 🗌 No 🛛	5. Originating Site: Roadway
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) 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 transport.

BRIEF DESCRIPTION OF MATERIAL:

Diesel contamination cleaned from roadway cleanup.

CWS and MSDS attached.



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

SIGNATURE Hanagement Facility Authorized Agent	TITLE: Environmental Administrative Assistant	DATE: <u>08/19/02</u>
		Ň

TYPE OR PRINT NAME: Landrea Jackson	TELEPHONE NO: (505) 632-0615
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(This space for State Use)		
		A7 (
APPROVED BY: Deny Keus	TITLE: Enviro/Engt	DATE: 305703
APPROVED BY: Thits gos .	TITLE: Emironmetal Galyist	DATE: 03/18/03
CERTIFICATE OF WA	STE STATUS	
--	--	
1. Generator Name and Address: 2. Destin	ation Name:	
Landfar	ech Soil Remediation Facility m #2 , New Mexico	
	f the Waste (Street address &/or ULSTR);	
Rio Arriba Co, NM		
Attach list of originating sites as appropriate		
4. Source and Description of Waste Diesel Contaminated		
Dieser Contaning of		
50/		
$1 \circ 11 = 1$		
U. Dec Whatley	representative for:	
Disl Oil Conifsvi	do hereby certify that,	
ccording to the Resource Conservation and Recovery Act (RCR/ 988, regulatory determination, the above described waste is: (cl	A) and Environmental Protection Agency's July,	
EXEMPT oilfield waste NON-EXEMPT oilfield w analysis or by product in	vaste which is non-hazardous by characteristic dentification	
nd that nothing has been added to the exempt or non-exempt nor	n-hazardous waste defined above.	
or NON-EXEMPT waste the following documentation is attach	ned (check appropriate items);	
MSDS Information	Other (description):	
RCRA Hazardous Waste Analysis		
Chain of Custody		
Chain of Custody		
Chain of Custody is waste is in compliance with Regulated Levels of Naturally Occ		

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P. 03

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Material Safety Data Sheet	Conoco
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NO. 2 DIESEL FUEL	····· ··· · · · · · · · · · ·
# 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION	
No. 2 Diesel Fuel	
	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	n – na sense and an anna anna an an an an an an an an an
PHONE NUMBERS Product Information : 1-281-293-5550 Transport Emergency : CHEMTREC 1-800-424-9300 1-703-527-3887 (interna Medical Emergency : 1-800-342-5119 or 1-281 WEB SITE : www.conoco.com	ational; call collect)
# 2. COMPOSITION/INFORMATION ON INGREDIENTS	
Components CAS Number Diesel Fuel, No. 2 68476-34-6	ू भू 100
Note Sulfur content: <0.05 wt.* in low sulfur fuel <0.5 wt.* in high sulfur fuel	
Exposure limits Petroleum distillate standard applies. (See Sec	
3. HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW	
APPEARANCE / ODOR Red or Undyed (Clear or Straw-Colored) Liquid / 2	Aromatic Odor
OSHA REGULATORY STATUS This material is hazardous as defined under OSHA Combustible. See below for health effects.	regulations.
HMIS RATING: Health: 1; Flammability: 2; H NFPA RATING: Health: 0; Flammability: 2;	Reactivity: 0. Instability: 0.
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	Potential Health Effects	
	Primary Routes of Entry: Skin, inhalation	
	The product may cause irritation to the eyes, nose, throat, lungs, and skin after prolonged or repeated exposure. Extreme	** er e 1999, mer skulde Samenhere Saran – er er e stra i fra
. <u></u>	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.	·
	Kigh 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	
14. <u></u> 21	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	

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P. 05

Flammable Properties Flash Point : 130 F (54 C) : PMCC Method Flammable limits in Air, % by Volume : 0.4 LEL · · · · : 6 UEL Autoignition : 494 F (257 C) a management and a state of the 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)

P. 06

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 EOUIPMENT Coveralls with long sleeves if splashing is probable. Applicable Exposure Limits Petroleum distillate standard applies. PEL(OSHA): 500 ppm, 2000 mg/m3, 8 Hr. TWATLV(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/kgSkin 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 a second and the state Hazard Class : Combustible liquid I.D. No. (UN/NA) : NA1993 Packing Group : III I.D. No. (UN/NA) Packing Group DOT Label(s) : None DOT Placard : Combustible ICAO/IMDG Proper Shipping Name : Gas Oil Hazard Class : 3 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. RCRA This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it meets criteria for being ignitable according to U. S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply. CLEAN WATER ACT The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802). Ingredient : Petroleum Hydrocarbons. Reportable Quantity : Film or sheen upon or discoloration of any water surface. State Regulations (U.S.) CALIFORNIA "PROP 65" This material is not known to contain any ingredient(s) subject to the Act. PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List. Ingredient : Diesel Fuel Oil Category : Hazardous Substance. Canadian Regulations CLASS B Division 3 - Combustible Liquid. CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects. _____ 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. : MSDS Coordinator Prepared By Conoco Inc. : PO Box 2197 Address Houston, TX 77252 Telephone : 1-281-293-4386 # Indicates updated section.

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End of 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

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

Submit Original Plus 1 Čopy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: 🗌 Non-Exempt: 🖾	4. Generator: Compressor Systems Inc.
Verbal Approval Received: Yes 🗌 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. Circle One:
 - A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
 - B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved
 - All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Soil contaminated 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 the half cy

SIGNATURE Hanagement Facility Authorized Agent TITLE: Environmental Administrative Assistant	DATE: <u>10/18/02</u>
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	051803
(This space for State Use) APPROVED BY: Demy Toust TITLE: Environ Engl DATE: APPROVED BY: Marty Jay Toust TITLE: Environmenty Geologies DATE:	3/06/03 3/18/03

& NATURAL RESOURCE	[600] 334-6170 Fax (806)334
GOVERNOR GOVERNOR	TE OF WASTE STÂTUS
	Der Jun.
1. Generator Name and Address: Conflex 33 of SY37Em3 and S995 US Hay 64	2. Destination Name: Envirotech Soul, Remediation Facility Landfarm #2
FARMENGTON N.M 87401	Hilltop, New Mexico
3. Originating Site Iname):	Location of the Waste (Street address &/or ULSTR):
31-6#213 52C5 RANGEGW . "K" SUBT30	
. "K" SUBT30	n R 6W
Attach list of originating sites as appropriate 4. Source and Description of Waste	A R 6W al LENE COVERENG SKED AND OVERFLOWENC
Attach list of originating sites as appropriate Attach list of originating sites as appropriate A. Source and Description of Waste SCACW COMPRESSOR BROKE OF ON to GROUND, ABOUT 75 C CON to GROUND, ABOUT 75 C (Print Name)	A R 6W ALLONG OF OFL ON GROUND representative for: ALLONG OF OFL ON GROUND
Attach list of originating sites as appropriate Attach list of originating sites as appropriate A. Source and Description of Waste SCACW COMPARESTOR BROAL OF ON to GROUND, ABOUT 75 C CON to GROUND, ABOUT 75 C (Print Name) <u>Comparestor</u> Systems coording to the Resource Conservation and	n R 6W EL LENE COURNENG 3K\$D AND OUTRELOWENG SALLON & OF OIL ON GROUND representative for:
'' K'' SUST301 Attach list of originating sites as appropriate 4. Source and Description of Waste SCACH COMPRESSOR BROKE OF ON to GROUND, ABOUT 75 C ON to GROUND, ABOUT 75 C Confletsson System Confletsson System Confletsson System Score System State State Confletsson State State	A R 6W CL LENE COURSENG SEED AND OUTRELOWENC ALLONG OF OIL ON GROUND representative for: CMC do hereby certify that, Recovery Act (RCRA) and Environmental Protection Agency's July,
Attach list of originating sites as appropriate 4. Source and Description of Waste SCACH COMPRESSOR BROKE OF ON TO GROUND, ABOUT 75 C CONTO GROUND, ABOUT 75 C (Print Name) <u>Compression</u> Configure Resource Conservation and 988, regulatory determination, the above des EXEMPT olifield waste X NO and	I R 6W I LINE CONSERVE SEED AND ONTRECOUSNE ALLONG OF OIL ON GROUND representative for: CAL do hereby certify that, Recovery Act (RCRA) and Environmental Protection Agency's July, scribed waste is: (Check appropriate classification) N-EXEMPT olifield waste which is non-hezardous by characteristic

Title: <u>SCALOR SLAVELE TICH</u>

Date: 10/18/02

FILE No.636 01/09 '03 PM 02:57 ID:COMPRESSOR SYSTEMS INC. FAX:15056328985

PAGE 2



Material Safety Data Sheet

Page 1 of 7

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

Chevron Products Company Global Lubricants 555 Market St. Room 803 San Francisco, CA 94105-2870 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 Int'l collect calls accepted

MSDS Number: 006852

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

Revision Number: 0

Components	AMOUNT	limit/qty	AGENCY/TYPE
HYDROTREATED DIST., HVY PA Chemical Name: DISTILLATES CAS64742547 >	, HYDROTREATED	HEAVY PARAFFINIC 5 mg/m3 (mist) 10 mg/m3 (mist) 5 mg/m3 (mist)	ACGIH TWA ACGIH STEL OSHA PEL
ADDITIVES <	20.00%		
COMPOSITION COMMENT: All the components of this	<u>material are </u>	on the Toxic Subst:	ances Control

Revision Date: 10/25/97

FILE No.636 01/09 '03 PM 02:58 ID:COMPRESSOR SYSTEMS INC. FAX	FHX:15056328985
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CHEVRON HDAX NG Screw Compressor Oil

Page 2 of 7

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

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: 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

PAGE 5

CHEVRON HDAX NG Screw Compressor Oil Page 4 of 7

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: Liguid. pH: NDA VAPOR PRESSURE: NA · VAPOR DENSITY (AIR=1): NA BOILING POINT: NDA FREEZING POINT: NDA MELTING POINT: NA Soluble in hydrocarbon solvents; insoluble in water. SOLUBILITY: SPECIFIC GRAVITY: NDA DENSITY: NDA EVAPORATION RATE: ŇA 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

Revision Number: 0

Revision Date: 10/25/97

MSDS Number: 006852

X-00S(21 (01-89)

CHEVRON HDAX NG Sc. W Compressor Oil

Page 5 of 7

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PAGE 6

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)

FILE No.636 01/09 '03 PM 02:59 ID:COMPRESSOR SYSTEMS INC. FAX:15056328985 PAGE 7 6 of 7 Jew Compressor Oil Page CHEVRON HDAX NG S 15. REGULATORY INFORMATION 1. Immediate (Acute) Health Effects: NO SARA 311 CATEGORIES: 2. Delayed (Chronic) Health Effects: NO NO 3. Fire Hazard: 4. Sudden Release of Pressure Hazard: NO NO 5. Reactivity Hazard: REGULATORY LISTS SEARCHED: 22=TSCA Sect 5(a)(2) 11=NJ RTK 01=SARA 313 23=TSCA Sect 6 12=CERCLA 302.4 02-MASS RTK 24=TSCA Sect 12(b) 03=NTP Carcinogen 13-MN RTK 25-TSCA Sect 8(a) 04-CA Prop 65-Carcin 14=ACGIH TWA 05=CA Prop 65-Repro Tox 15=ACGIH STEL 26=TSCA Sect 8(d) 16=ACGIH Calc TLV 27=TSCA Sect 4(a) 06=IARC Group 1 17=OSHA PEL 28-Canadian WHMIS 07=IARC Group 2A 18=DOT Marine Pollutant 29=OSHA CEILING 08=IARC Group 2B 19=Chevron TWA 30=Chevron STEL 09=SARA 302/304 20=EPA Carcinogen 10=PA RTK 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

TLV	EVIATIONS THAT MAY HAVE BEEN - Threshold Limit Value - Short-term Exposure Limit	ISED IN THIS DOCUMEN TWA - Time Weighte TPQ - Threshold P:	ed Average	ر. ۲۰۰۰
RQ	- Reportable Quantity	PEL - Permissible		
c	- Ceiling Limit	CAS - Chemical Abs		
A1-5	- Appendix A Categories	() - Change Has B		
NDA	- No Data Available	NA - Not Applicat	ole	

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibil-

ity for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination

THIS IS THE LAST PAGE OF THIS MSDS

of the suitability of the material for his particular purpose.

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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

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

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 #95026-006

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:

Diesel and gel contaminated media removed from containment area.

CWS and MSDS attached.



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Estimated Volume 50bbl cy	Known Volume (to be entered by the operator at the end of the haul)	

SIGNATURE Management Facility Authorized Agent TITLE: Environmental Administrative Assistant	DATE: <u>11/20/02</u>
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	Ø 5 1803
(This space for State Use) APPROVED BY: Demy Poust TITLE: Enviro/Engr DATE:	3/06/03
APPROVED BY: Think of 34. TITLE: Environmental Code, SI DATE:	3/10/03

 NEW MEXICO ENERGY, MIN & NATURAL RESOURCES DI 	
ARY E. JOHNSON GOVERNOR CERTIFICATE C	MAR 2003
1. Generator Name and Address:	2. Destination Name:
B. J. Services 3250 South Dide River Rd. Farmington A.M 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): BJ Services yord	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Deerel and Gel conterminated	I made removed from
conternment area. Les Baugh	representative for:
contain ment area: Les Baugh BIServices according to the Resource Conservation and Recover 1988, regulatory determination, the above described	representative for: do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
contain ment area: <u>Les Baugh</u> <u>BJService</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described <u>EXEMPT oilfield waste</u> <u>X</u> NON-EXE	representative for: do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July,
contain ment alea: I. <u>Les Bugh</u> <u>BJService</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste <u>X</u> NON-EXE analysis of	representative for: do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification
contain ment area: <u>Les Baugh</u> <u>BJService</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described <u>EXEMPT oilfield waste</u> <u>X</u> NON-EXE	representative for: do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above.
Contain when a dea: A <u>Les</u> <u>Baugh</u> <u>BJServices</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described <u>EXEMPT oilfield waste</u> <u>NON-EXEMPT oilfield waste</u> analysis of and that nothing has been added to the exempt or main For NON-EXEMPT waste the following document <u>MSDS Information</u> RCRA Hazardous Waste Analysis Chain of Custody	representative for: do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification ion-exempt non-hazardous waste defined above.

Date:

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#1968-003

15026-10



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:1FLAMMABILITY:1REACTIVITY:0PERSONAL PROTECTION:e

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Guar gum	9000-30-0	>99	Irritant

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD): UPPER EXPLOSION LIMIT(% BY VOL): LOWER EXPLOSION LIMIT(% BY VOL): AUTO-IGNITION TEMPERATURE: EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

>200°F (TOC)

N.E. N.E.

N.E.

Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.

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: Eye contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT:	No specific information available. Contains materials that are essentially nonirritating, but contact may cause slight transient irritation.
SKIN ABSORPTION:	No specific information available. Contains materials that may be practically nontoxic.
EYE CONTACT:	No specific information available. Contains materials that may cause eye injury which may persist for several days.
INHALATION:	No specific information available. Dust may produce a respiratory allergenic response and/or irritation in some individuals.
INGESTION:	Contains materials that may be practically nontoxic. Ingestion of dry 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.

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

Off white powder, bean-like odor
1.3
N.A.
Forms gel
6-8 at 0.5 wt/wt%

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY:StableINCOMPATIBLE MATERIALS:Strong oxidizing agentsHAZARDOUS POLYMERIZATION:Does not polymerizeHAZARDOUS 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.

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

Not DOT Regulated
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

N.E. = Not Established N.A. = Not Applicable



BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: ITEM NUMBER : CHEMICAL DESCRIPTION: PRODUCT USE: SUPPLIER: ADDRESS:

International PREPARED BY:

DATE PREPARED:

August 6, 1998

EMERGENCY TELEPHONE NUMBER

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:	0
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: 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 EXPLOSION DATA:protective equipment including
respiratory protection.HAZARDOUS COMBUSTION PRODUCTS:Vapor forms explosive mixture with
air.Carbon monoxide, carbon dioxide,
and a variety of hydrocarbons

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

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SKIN CONTACT:	Prolonged or repeated contact with skin may cause irritation or contact dermatitis.
SKIN ABSORPTION:	Not absorbed by skin.
EYE CONTACT:	Eye contact may cause irritation and redness.
INHALATION:	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.
	EFECTO, Eve installer also installer leading to

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

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:

SPECIFIC GRAVITY: VAPOR PRESSURE: VAPOR DENSITY (air=1): EVAPORATION RATE: BOILING POINT: FREEZING POINT: SOLUBILITY IN H20: pH: Clear or straw-colored or dyed blue/green/red liquid with aromatic odor. 0.84-0.88 @ 60°F 1 mm Hg @ 68°F >1 N.E. 350-690°F (177-366°C) N.E. Insoluble N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: INCOMPATIBLE MATERIALS: HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION PRODUCTS: Stable Strong oxidizers 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. Rubber or neoprene PROTECTIVE GLOVES: Safety glasses or goggles EYE PROTECTION: 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 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.
STORAGE REQUIREMENTS: Store outdoors or in a detached area if possible. Otherwise, store in a well-ventilated area away from heat, sparks

and open flames.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME:	Diesel Fuel
HAZARD CLASS:	3
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 SECTION 313	Immediate, Delayed, Fire 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. 11/22/2002

Revision: 2

Status: Approved & Released MSDS

Revision History:

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

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BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: ITEM NUMBER: CHEMICAL DESCRIPTION: PRODUCT USE: SUPPLIER: ADDRESS:

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

EMERGENCY TELEPHONE NUMBER

International PREPARED BY:

DATE PREPARED: 1998

BJ Services Environmental Group (281)351-8131 November 9, 2000 Supersedes: February 19,

HMIS HAZARD INDEX

HEALTH:	2
FLAMMABILITY:	0
REACTIVITY:	0
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): UPPER EXPLOSION LIMIT(% BY VOL): LOWER EXPLOSION LIMIT(% BY VOL): AUTO-IGNITION TEMPERATURE: EXTINGUISHING MEDIA:	N.A. N.A. 73.6 g/m3 N.E. Alcohol foam, carbon dioxide, dry
SPECIAL FIRE FIGHTING PROCEDURES	chemical, or water fog Firefighters should have eye protection and wear self-contained breathing apparatus. Use water spray
EXPLOSION DATA:	to cool containers exposed to fire. Normal precautions for organic dusts should be provided. Avoid dust

concentrations and ensure all equipment is properly grounded to prevent static discharges. Oxides of carbon and ammonia

HAZARDOUS COMBUSTION PRODUCTS:

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:	Cannot be absorbed through the skin.
EYE CONTACT:	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.E.

SECTION V - FIRST AID PROCEDURES

FOR EYES: In case of contact, immediately flush eyes with plenty of

	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:	N.A.
VAPOR DENSITY (air=1):	N.A.
EVAPORATION RATE:	N.A.
BOILING POINT:	N.A.
FREEZING POINT:	N.A.
SOLUBILITY IN H20:	Insoluble
pH:	N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: INCOMPATIBLE MATERIALS: HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION PRODUCTS: Stable None known Does not polymerize 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

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

Not DOT Regulated
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 SECTION 313	Immediate, Delayed 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. 11/22/2002

Status: Approved & Released MSDS

Revision: 1

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Revision History:

Revision:	Sec/Para Changed	Change Made:	Date
1	N/A	Initial Issue of Document	Today
2	1	Telephone number	11/9/00

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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
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): UPPER EXPLOSION LIMIT(% BY VOL): LOWER EXPLOSION LIMIT(% BY VOL): AUTO-IGNITION TEMPERATURE: EXTINGUISHING MEDIA:	> 300°F (COC) N.A. N.A. N.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: HAZARDOUS COMBUSTION PRODUCTS:	N.E. Carbon monoxide, carbon dioxide

SECTION IV - HEALTH HAZARD DATA

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: INHALATION: INGESTION:	Eye contact may cause irritation and redness. 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:

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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.
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 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: SPECIFIC GRAVITY: VAPOR PRESSURE:	Clear, colorless to amber liquid with mild polyether odor 0.98 at 77°F N.F.
VAPOR DENSITY (air=1):	> 1
EVAPORATION RATE:	N.A.
BOILING POINT:	485°F
FREEZING POINT:	24°F
SOLUBILITY IN H20:	Insoluble
pH:	6-8 (5% aqueous solution)
SECTION VII - REACTIVITY DATA

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CHEMICAL STABILITY: INCOMPATIBLE MATERIALS: HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION PRODUCTS:

Stable Oxidizers, temperature extremes Does not polymerize 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: EYE PROTECTION:	Chemical resistant Gogales
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, drv, 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. 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:	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:

Sec/Para Changed	Change Made:	Date
N/A	Initial Issue of Document	Today
All	General revision	07/09/01
	N/A	N/A Initial Issue of Document

and an				
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	State of New Mexico Energy Minerals and Natural Resour	Form C-138 rces Revised March 17, 1999		
1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Submit Original Plus 1 Copy to Appropriate District Office		
REQUEST FO	R 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: Envir Landfarm #2	otech Soil Remediation Facility,	6. Transporter: Envirotech		
3. Address of Facility Operator: 5796 U.S 87401	. Highway 64, Farmington, NM	8. State: New Mexico		
7. Location of Material (Street Address or U. Bloomfield	LSTR) 401 West Broadway,	Project #02145-001		
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 de	livered are only those consigned for trans	sport.		
BRIEF DESCRIPTION OF MATERIAL:		3456		
Diesel contaminated media from truck spill onto parking lot.				
CWS & MSDS attached.				
Needs MSDSfordiese	1 in Future will ne metals test when from parking lots,	ed TCLD mu public		
	ne (to be entered by the operator at the en			
SIGNATURE Handware Active Assistant DATE: <u>11/13/02</u> Waste Management Paeinty Authorized Agent				
TYPE OR PRINT NAME: Landrea Jackson	TELEPHONE NO: (505) 632-0615	2005 		
(This space for State Use) Martin Of	KG. Environm	h Geologist 3/18/03		
(This space for State Use) Mantin Grig. Environmuch Geologist 3/18/03 APPROVED BY: Jenny Fourt TITLE: Environ DATE: 3/6/03				
APPROVED BY: Aug	TITLE: <u>gedla</u>	<u>aq12</u> DATE: <u>5-6-3</u>		

JARY E. JOHNSON	DEPARTMENT AZTEC, NEW M (506) 334-6179 F/	EXICO ** (505)3
CERTIFICATE	OF WASTE STATUS	
1. Generator Name and Address:	2. Destination Name	
BLACK WARRIOR WIRELINE CORP. P. O. BOX 2435 FARSHINGTON, NM 87499	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
Parking lot Farmers M	larket in Bloomfield	
Attach list of originating sites as appropriate		
4. Source and Description of Waste		
Diesel Fuel	۰	
I, <u>OEFFY</u> (Print Name) / (representative for:	
1988, regulatory determination, the above describe		July,
	XEMPT oilfield waste which is non-hazardous by character s or by product identification	ISTIC
analysis		
EXEMPT oilfield waste X NON-EX analysis and that nothing has been added to the exempt or		
analysis	r non-exempt non-hazardous waste defined above. entation is attached (check appropriate items):	
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste the following docume MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	r non-exempt non-hazardous waste defined above. entation is attached (check appropriate items):	suarit



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:	Mixture
Chemical Family:	Hydrocarbons
CAS Number:	68476-34-6
SAP Code:	1014071; 1014072; 1014073; 1014074; 1014075; 1014075; 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:	Health 1, Flammability 2, Reactivity 0
HMIS Ratings:	Health 1, Flammability 2. Reactivity 0
Manufactured By:	Phillips 66 Company A Division of Phillips Petroleum Company Bartlesville, Oklahoma 74004
Phone Numbers	

Technical Information:	(918) 661-1672
For Additional MSDSs:	(800) 762-0942

(918) 661-8118

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Specification and CAS #	Weight % In Product	ACGIH TLV	ACGIH Short Term Exposure Limit	ACGIH Ceiling Limits	ACGIH Skin Designation	OSHA Final PEL	OSHA - Final PELs - Ceiling Limite	OSHA - Final PELs Skin Notalion
Diesel fuel no. 2 68476-34-6	100	NE	NE	NE	NE	NE	NE	NE
Sultur 7704 - 34 - 9	< 0.5	NE	NE	NE	NĘ	NĒ	NE	NE
Benzene 71-43-2	< 0.005	0.5 ppm	2.5 ppm; 8 mg/m3	NË	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.

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Emergency:

ConocoPhillips

3/6/2003 9:17 PAGE 279

KightFAX

Black Warrior Wireline

(MSDS: 001847)

PHILLIPS

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 Low Sulfur Diesel - Dyed 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

0261.81

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

NFPA Hazard Class:		HMIS Hazard Class		
Health: 1	(Slight)	Health:	3*(High)	
Flammability:2	(Moderate)	Flammability:	2 (Moderate)	
Reactivity: 0	(Least)	Physical Hazard:	0 (Least)	

*Indicates possible chronic health effects.

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	<u>% VOLUME</u>	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.

Page 3 of 8

- 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.
- Conditions appravated by exposure may include skin Pre-Existing Medical Conditions: disorders and kidney disorders.

4. FIRST AID MEASURES

- Eve: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eves 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).

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.

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

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.

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:	128

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:	No

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.

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 Resour Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-1 Ces Revised March 17, 19 Submit Origin Plus 1 Cc to Appropria District Off
REOUEST F	OR APPROVAL TO ACCEP	Γ 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: Env Landfarm #2	virotech Soil Remediation Facility,	6. Transporter: Envirotech
3. Address of Facility Operator: 5796 U 87401	.S. Highway 64, Farmington, NM	8. State: New Mexico
7. Location of Material (Street Address or	ULSTR) MP 73, Hwy 64, Blanco	Project #95026-007
9. <u>Circle One</u> :		
one certificate per job. B. All requests for approval to accept no	lfield exempt wastes will be accompanied by on-exempt wastes must be accompanied by ne enerator's certification of origin. No waste cl	

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

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 the haul)

SIGNATURE Sandred R. Waste Management Facility	Authorized Agent	TITLE: Environmental Administrative Assistant	DATE: <u>11/26/02</u>
TYPE OR PRINT NAME: Landrea J	ackson TELEPHO	DNE NO: <u>(505) 632-0615</u>	231B03 -

	- and an A. S.	
(This space for State Use)		
APPROVED BY: Demy Faut	TITLE: Enviro/Engr	DATE: <u>3/06/03</u>
APPROVED BY: Think of the	TITLE: Environmental Cordegist	DATE: 3/18/03

Submit Original Plus 1 Copy to Appropriate District Office

& NATURAL RESOURCES DE	
ARY E. JOHNSON GOVERNOR	MAR 2003
CERTIFICATE O	OF WASTE STATUS
1. Generator Name and Address: BJ Services Piver Road RAMMINGTON, New Mexico	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Mile Post 73, Highway 64 Blance, New Metrico	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate 4. Source and Description of Waste Fluids cleaned up of acced	but site
1, <u>Les Baugh</u> (Print Name) <u>BJ Services</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described	representative for: do hereby certify that, ery 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	on-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):
	Naturally Occurring Badioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	
• –	uph



BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region:

UŜA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: ITEM NUMBER : CHEMICAL DESCRIPTION: PRODUCT USE: SUPPLIER: ADDRESS:

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

EMERGENCY TELEPHONE NUMBER

International PREPARED BY:

DATE PREPARED: August 6, 1998 BJ Services Environmental Group (281)351-8131 August 7, 2000 Supersedes:

HMIS HAZARD INDEX

HEALTH:	1
FLAMMABILITY:	2
REACTIVITY:	0
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): UPPER EXPLOSION LIMIT(% BY VOL): LOWER EXPLOSION LIMIT(% BY VOL): AUTO-IGNITION TEMPERATURE: EXTINGUISHING MEDIA:	130°F (TCC) 6.0 0.4 494°F 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

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: EYE CONTACT:	Not absorbed by skin. Eye contact may cause irritation and redness.
INHALATION:	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.
	EEEECTS: Evo irritation skin irritation leading to

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:

SPECIFIC GRAVITY: VAPOR PRESSURE: VAPOR DENSITY (air=1); EVAPORATION RATE: BOILING POINT: FREEZING POINT: SOLUBILITY IN H20: pH: Clear or straw-colored or dyed blue/green/red liquid with aromatic odor. 0.84-0.88 @ 60°F 1 mm Hg @ 68°F >1 N.E. 350-690°F (177-366°C) N.E. Insoluble N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY:StableINCOMPATIBLE MATERIALS:Strong oxidizersHAZARDOUS POLYMERIZATION:Does not polymerizeHAZARDOUS 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:** As needed. Air purifying, half face piece, organic vapor cartridge or canister. PROTECTIVE GLOVES: Rubber or neoprene EYE PROTECTION: 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.
 STORAGE REQUIREMENTS: Store outdoors or in a detached area if possible. Otherwise, store in a well-ventilated area away from heat, sparks and open flames.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME:	Diesel Fuel
HAZARD CLASS:	3
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	
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

MSDS for Diesel #2...Page 4

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

N.E. = Not Established N.A. = Not Applicable

MSDS for Diesel #2...Page 5

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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

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

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: 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 a certification of waste from the Generator; one certificate per job.
- B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved
- All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Sand contaminated when it was placed in the wrong silo. 40/70 Arizona and 20/40 TLC.

CWS and MSDS for both types of sand attached.



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34803~1

Estimated Volume 26,000 pounds cy Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE	andrea	R.	ackson
Ŵ.	aste Managemen	t Facilit	y Authorized Agent

TITLE: Environmental Administrative Assistant DATE: 12/06/02

TYPE OR PRINT NAME: Landrea Jackson	TELEPHONE NO: (505) 632-0615
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(This space for State Use)		
APPROVED BY: Derry Foust	TITLE: Enviro/Engi	DATE: 3/06/03
APPROVED BY: Minton 7 55.	TITLE: Environmuch / Gedans/	DATE: 3/18/03

Date: 2/28/2003

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& NEW MEXICO ENERGY, MI		AZTEG DISTRICT OFFICE 1000 Rig Brazos Road Aztec, New Mexico 8741 (506) 334-6178 Fax (505)334-1
RY E. JOHNSON Governor		JENNIFER A. SALISBURY CABINET SECRETARY
CERTIFICATE	OF WASTE STAT	US 123456
1. Generator Name and Address: JCHLUMBER GER 3106 BLOOM FIECD HWY 7ARMZNGZON, NEW MEX-	2. Destination Name: Envirotech Soil Remedia Landfarm #2 Hilltop, New Mexico	ttion Factility One
3. Originating Site (name): SCHLUMBCRG-CR 3106 BLOOMFIELD HW)	Location of the Waste (Street a	ddress &/or ULSTRI:
PARMING TON, HEW H. Attach list of originating sites as appropriate 4. Source and Description of Waste		
SAND WAS CONTAMINA SAND IN UKONF SZLO.	47815 BY 1477720 40/70 AKZZ - G	FUROUF 20140 The
STEPHAN R. SWORD Print Name) SCHLUMBER GER	b	representative for:
JUANUM BER FER	very Act (KLKA) and Environmenta	do hereby centify that, I Protection Agency's July, ation)
according to the Resource Conservation and Keco	ed waste is: (Check appropriate classific	
EXEMPT oilfield waste	ed waste is: (Chook appropriate classific EMPT oilfield waste which is non-h or by product identification	
EXEMPT oilfield waste according to the Resource Conservation and Reco EXEMPT oilfield waste Analysis	EMPT oilfield waste which is non-h or by product identification	azardous by characteristic
EXEMPT oilfield waste analysis and that nothing has been added to the exempt or	EMPT oilfield waste which is non-h or by product identification 	azardous by characteristic lefined above. te items):
EXEMPT oilfield waste EXEMPT oilfield waste Analysis EXEMPT oilfield waste EXEMPT oilfield waste Analysis and that nothing has been added to the exempt or MSDS Information RCRA Hazardous Waste Analysis	EMPT oilfield waste which is non-h or by product identification non-exempt non-hazardous waste o ntation is attached (check appropria Other (descriptio	azardous by characteristic efined above. te items): n):



MATERIAL SAFETY DATA SHEET

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

Effective Date:

The

PRODUCT CODE:

S128.2-2040

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-

Page 1 of 5

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-	PRODUCT COD	E:	S128.2-2040	Effective Date:	16-September-2002
				contained br	eathing apparatus.
	Flash point:			Not combust	ible.
	Method:			Not applicab	le
	Flammability	(explosic	n limits in air):		
	Lower:		Not applicable	Upper:	Not applicable
			-ignition temperature		Not applicable
	•		thermal decomposition		Not determined
	NFPA Rating:	Health	1 Flammability 0 R	eactivity 0 Other: Non	e
	Combustion p	roducts:	see Section 10.		
	6. ACCIDENTAL	RELEA	SE MEASURES		
	After spillage/	leakage		Scoop into co water.	ontainers. Flush residual with plenty o
	See Section 8	for prot	ective equipment info	ormation.	
	See Section 1	3 for dis	posal information.		
	7. HANDLING A	ND STO	RAGE		
	Special Preca	utions:		No special pr	recautions required.
	Packaging red	quireme	nts:		ninimum 3 ply), or other industrial signed for powders and granulated
	Ventilation:			Provide venti belaw exposi	lation to keep airborne concentrations ure limits.
	8. EXPOSURE C	ONTRO	LS/PERSONAL PRO	DTECTION	
	Respiratory p	otection		protection (3)	approved respirator with dust and mis M 8210). If dust concentration exceed posure limit, wear an approved HEPA
	Eye protection	1:		It is good pra chemical,	ctice to wear goggles when handling
	Hand protection	on:		Cotton glove:	s.
	Skin protection	n:		Clean, body-	covering clothing.
	Exposure Lim	it Guidel	ines (mg/m3)		
	Components I	naving n	o established limits a	re not listed.	
	(NE: Not estal	blished,	ND: Not determined)	,	
	These numbe	rs may b	e referred to as OEL	, MAC, MAK, MEL, O	ES, REL, PEL, or TLV.
				STEL is the short term	-
	"C" indicates t	he value	is a maximum conce	entration (ceiling).	
		CRYST	ALLINE SILICA		
		TWA	STEL ANM		
	CANADA	ND	ND		
	USA: ACGIH	0.05	NE		
	USA: OSHA	0.1	NE		
				Dama 2 of 5	
				Page 2 of 5	

(505)325-0206

16-September-2002

p.5

PRODUCT CODE: \$128.2-2040

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:

10. STABILITY AND REACTIVITY

Stability: Conditions to avoid: Materials to avoid: Hazardous Polymerization: Dust explosion hazard (solids): Special hazards: Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact:

Inhalation: Ingestion:

Carcinogenicity:

Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization: Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability: Fish Toxicity: Granules Yellow to brown None Not applicable 3992°F 3115°F Not applicable 2.5 (68°F) 1100-1600 kg/m3 Insoluble Not applicable Not applicable 0 Inert

Effective Date:

Stable. None known None known Will not occur. No. None. When heated strongly or

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

May cause mechanical irritation.

No effect expected. Prolonged or repeated contact may cause mild irritation.

Repeated exposure to silica dust may cause silicosis. No effect expected. Swallowing large amounts may cause illness.

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. Not known to cause birth defects.

Lung

Not known to cause allergic reaction. None.

None known. Not applicable Low toxicity to fish.

PRODUCT CODE:	S128.2-2040	Effective Date:	16-September-2002
13. DISPOSAL CONSIDI	ERATIONS		
Product:			y sanitary landfilling or other acceptab ccordance with local regulations.
Container:		types of cont	bags to sanitary landfill. Render other tainers unuseable by puncturing or I sanitary landfill unless prohibited by l
USA EPA RCRA:		None	
14. TRANSPORT INFOR	MATION		
CERCLA RQ:	Not established.		
Department of Transp	ortation (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:	
			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;

PRODUCT CODE: \$128.2-2040	Effective Date:	16-September-2002
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however, no warranties or representations are made by Schlumberger regarding the accuracy or completeness of the information.

Schlumberger	Schl	umbei	Ter
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MATERIAL SAFETY DATA SHEET

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1) HU/70 ARIZONA

Effective Date:

PRODUCT CODE:

S022

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	

Extinguishing media:	
Further Information:	
Flash point:	

None needed None known. Not combustible.

PRODUCT CODE:	S022	Effective Date:	16-Sept	ember-2002
Method:		Not a	applicable	
Flammability (explos	ion limits in ai	r):		
Lower:	Not appli	cable Up	per:	Not applicable
Autoflammability (aut	to-ignition tem	perature):		Not applicable
Explosive properties	(thermal deco	mposition temperature	e):	Not determined
NFPA Rating: Health	0 Flammabi	lity 0 Reactivity 0 Oth	er: None	
Combustion products	s: see Section	10.		

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:	Scoop into containers. Flush residual with plenty of water.
Con Contine O for eveloptive a suiter and information	

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

	TWA	STEL ANM
CANADA	ND	ND
USA: ACGIH	0.05	NE
USA: OSHA	0.1	NE

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules
Color:	Tan
Odor;	None
pH value:	Not applicable

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p.10

33	03:37p Steve Sword	(505)325-0206 P
Ρ	RODUCT CODE: S022	Effective Date: 16-September-2002
	Boiling point:	3992°F
	Pour point:	3115⁰F
	Vapor pressure:	Not applicable
	Relative density (specific gravity):	2.6 (68°F)
	Bulk Density (solids):	1100-1600 kg/m3
	Solubility in water:	Insoluble
	Viscosity:	Not applicable
	Relative Vapor Density (air=1):	Not applicable
	% Volatile:	0
	Nature:	Inert
4	0. STABILITY AND REACTIVITY	
3		Stable.
	Stability: Conditions to avoid:	None known
	Materials to avoid:	None known Will not occur.
	Hazardous Polymerization:	
	Dust explosion hazard (solids):	Not applicable.
	Special hazards:	None.
	Hazardous decomposition products:	None.
1	1. 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	2. 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:

Container:

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations. Send empty bags to sanitary landfill. Render other

. Page 3 of 4

PRODUCT CODE:	S022 E	ffective Date:	16-September-2002
		crust	of containers unuseable by puncturing or ing and sanitary landfill unless prohibited by loca ations.
USA EPA RCRA:		None	
14. TRANSPORT INFOR	MATION		
CERCLA RQ:	Not establish	ed.	
Department of Transpo	ortation (DOT)		
Designation:	Not Regulate	d .	
Hazard Class:	Not Regulated	d Sub F	lisk:
Shipping Name:	Not Regulate	d	
DOT Label:			
Canadian Shipments			
Shipping Name:	Not Regulated	Ł	
Label:			
Classification:		Sub Risl	K :
Package Group:			PIN:

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.

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1201 M. Canad August Artagia NB (88210	State of New Mexico ergy Minerals and Natural Resour	Form C-138 Revised March 17, 1999
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	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Submit Original Plus 1 Copy to Appropriate District Office
REQUEST FOR A	PPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: 🗌 Non-Exempt: 🛛	· · ·	4. Generator: Schlumberger
Verbal Approval Received: Yes	No 🖾	5. Originating Site: Yard
2. Management Facility Destination: Envirotech Landfarm #2	h Soil Remediation Facility,	6. Transporter: Havens
3. Address of Facility Operator: 5796 U.S. Hig 87401	hway 64, Farmington, NM	8. State: New Mexico
7. Location of Material (Street Address or ULSTR Farmington) 3106 Bloomfield Highway,	Project #97033-001
9. <u>Circle One</u> :		
 A. All requests for approval to accept oilfield ex one certificate per job. B. All requests for approval to accept non-exem material is not-hazardous and the Generator' approved 	pt wastes must be accompanied by n	
All transporters must certify the wastes delivered	ed are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL: Junk Cement.	al Use	MAR 2003
CWS and MSDS attached. benefici	ar use	Clar. a
Estimated Volume cy Known Volume (to	b be entered by the operator at the en	nd of the haul)cy
SIGNATURE Land ALLA K. Juleso Waste Management Faching Authorized Agent	TITLE: <u>Environmental</u>	Administrative Assistant DATE: <u>12/13/02</u>
TYPE OR PRINT NAME: Landrea Jackson TH	ELEPHONE NO: <u>(505) 632-0615</u>	ୁ ଅନ୍ଦ୍ରେମ-୧୦୫୮୦ ୧୮୦

TYPE OR PRINT NAME: Landrea Jackson TEL	EPHONE NO: <u>(505)</u> 632-0615
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(This space for State Use)		
APPROVED BY: Vermy tours	TITLE: Enviro/Engr	DATE: <u>3/06/03</u>
hall, in		
APPROVED BY: Musting of 541.	TITLE: Environmental Geologist	DATE: 3/18/03

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIG BRAZOB ROAD AZTEC, NEW MEXICO 27410 (906) 334-5178 Fax (205)334-5170

GARY E. JOHNSON

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

· · · · · · · · · · · · · · · · · · ·		
1. Generator Name and Address:	2. Destination Name:	
SCHELUMBERGER	Envirotech Soil Remediation Facility	
SCHELUMBERGER 3106 BLOOMFIGLDHWY	Landfarm #2	
FARMINETUN, NEWM-EX.	Hilltop, New Mexico	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
SCHLUMBER GER		
3106 BLOOMFZELD HW;	<i>\$</i>	
FARMING TOU ACK Attach list of originating sites as appropriate	mex.	
4. Source and Description of Waste		
JUNK CEMENT OIL	FIELD RETUGNS	
December 13, 2	002	
, STEPHAN R. SWORD	representative for:	
Print Name) SCHLY.MB-CRGEL		
DCALY MOTRUTUL	do hereby certify that,	
according to the Resource Conservation and Recover 1988, regulatory determination, the above described i	y Act (RCRA) and Environmental Protection Agency's July, 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.		
	tion is attended to be a subscription in the subscriptin in the subscription in the su	
For NON-EXEMPT waste the following documentation is attached (check appropriate items):		
MSDS Information RCRA Hazardous Waste Analysis	Other (description):	
- HUMA HALANUUS TRASIA 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): Staphank du	2345678
Title: BULL PLANT SUPER UZSOR	MAR 2003
Date: 3/3/2003	CALCONSON.
	Kill and the second sec

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

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
7. Location of Material (Street Address or ULSTR) 3106 Bloomfield Highway, Farmington	Project #97033-001

9. Circle One:

- A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
- B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved
- All transporters must certify the wastes delivered are only those consigned for transport.

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BRIEF DESCRIPTION OF MATERIAL:

Junk Cement.

CWS and MSDS attached. Beneficial Use

Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy
SIGNATURE Hanagement Fachity Authorized Agent TITLE: Environmental Administrative Assistant DATE: 08/28/02
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615 % % % %
(This space for State Use) APPROVED BY: Deny Poust TITLE: Enviro/Eng DATE: 3/06/03 APPROVED BY: Martyn Oth TITLE: Environmental Geologist DATE: 3/18/03

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION AZTEC DISTRICT UFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO B7410 (506) 334-6179 Fax (303)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

and the second se		
1. Generator Name and Address:	2. Destination Name:	
SCHLUMBERGER	Envirotech Soil Remediation Facility	
3106 BLOOMF ZELD HWY	Landfarm #2 Hilltop, New Mexico	
7ARM ING. TON, NEWMEX. 3. Originating Site (name):	alleop, new nexted	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
JCHLYMBERGER 3106 BLOOMFZELBHO		
	vy	
FARMZNG TON		
Attach list of originating sites as appropriate		
4. Source and Description of Waste		
JUNK CEMENT OZLF	ZELO RETUDIS	
A 46-457 28	,2002	
1, STEPHAN & SWORD (Print Name) SCHLUMBER (SER	representative for:	
(Print Name)		
UCALY MOTA IN ER	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,	
1988, regulatory determination, the above described t		
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 nor	n-exempt non-hazardous waste defined above.	
For NON-EXEMPT waste the following documentat	tion is attached (check appropriate items):	
MSDS Information	Other (description):	
RCRA Hazardous Waste Analysis		

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	e (Original Sigi	nature):	lphan R.	du)
		PLANT		
Date:	3131	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

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

BRIEF DESCRIPTION OF MATERIAL:

Junk Cement.

CWS and MSDS attached.	beneficial	use.

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: <u>02/20/02</u> <u>भ</u> ्र
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	631805
(This space for State Use)	
APPROVED BY: DEmy fount TITLE: Enviro/Engr DATE:	(1 1 - 1)
APPROVED BY Munty off . TITLE: Environmental Geologist DATE: 3	8/18/03




NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT DIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOB ROAD AZTEC, NEW MEXICO B7410 (508) 334-6178 Fax (305)334-6178

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

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CERTIFICATE OF WASTE STATUS

and the second		
1. Generator Name and Address: SCHLUMBERGER 3106 BLOOMF IELD HWY, LETT 7 GAMINGTON, DMEY	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
SCHLYMBORGER 3106 BLUOMFICLD	$4w\gamma$	
7ARMINGTON, DE	where.	
Attach list of originating sites as appropriate		
4. Source and Description of Waste		
OILFIELD RETURN	S JUNK C-ENENT	
7-CORUARY DU, 2	002	
1, <u>PTEPHAN R. SWARD</u> (Print Name) <u>SCHLUMBERGER</u>	representative for:	
POLL (LUA & P. a. C. a. A	ala kasaka satta d	
	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,	
1988, regulatory determination, the above described in		
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 documentat		
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): A Tephan R Sun Title: BULK PLANT SUP CRUZSCR Date: 3/3/2003

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

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. 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:

Junk Cement.

CWS and MSDS attached.	beneficial	Use
C WD and MDDD attached.	U	

Estimated Volumecy Known Volume (to be entered by the operator at the end of the haul)cy	
SIGNATURE Waste Management Facility Authorized Agent TITLE: Environmental Administrative Assistant DATE: 01/0	8/02
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	031803
(This space for State Use) APPROVED BY: Demy Fourt TITLE: Enviro/Engr DATE: 3/06/03 APPROVED BY: Martin Jing Ting TITLE: Environmental bada, 51 DATE: 3/10/03	3

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Name (Original Signature): A Ciphian R Sun

Title: BULY PLANT SUPERUZSOR

Date: 3/ 3/ 2003

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW NEXICO 87410 (506) 334-6175 Par (505)334-5175

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: SCHLUMBERGER 3106 BLOUMFIELDHWY. <u>RARMING-TON</u> <u>NEWMEX</u> . 3. Originating Site (name):	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico	
3. Originating Site (name): SCHL4 MBERGER 3106 BLOOMFIELD HO 7AR MING-TON, NEW Attach list of originating elles as appropriate	Location of the Waste (Street address &/or ULSTR): WY, M-CY,	
4. Source and Description of Waste	LFIELD RETURNS	
1988, regulatory determination, the above described w	representative for: do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT 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 documentat 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 (NORM) pursuant	

1/8/2001

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

Frephan R. Sufar Bulk Alant Supervisor

Bill Clarof 27 325-2627



MATERIAL SAFETY DATA SHEET

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

6%

	(Compiles with c		
DOWELL PRODUCT CODE:	D020	Effective Date:	23-November-1999
1. IDENTIFICATION OF THE SUBST	ANCE/PREP	ARATION AND OF THE C	OMPANY/UNDERTAKING
Identification of the substance or p BENTONITE EXTENDER D20	reparation:		
Company/undertaking identification	1:	Dowell Safety/Environm	nent - Worldwide
		300 Schlumberger Drive	e
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone:		USA 1-281-285-7873	
2. COMPOSITION/INFORMATION OF		NTS	
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 Flamr	nability 0 Re	activity 0	
This product may contain small a cause lung cancer. May cause			halation of silica dust may
See Section 11 for a complete d			
4. FIRST AID MEASURES			
Eye contact:		Flush eyes with water for attention if irritation occu	or 5 minutes. Get medical urs.
Skin contact:		Rinse with water.	

Remove to fresh air. Seek medical attention if irritation persists or you feel unwell.

Rinse mouth with water. Seek medical attention if irritation occurs. None.

5. FIRE FIGHTING MEASURES

Inhalation:

Swallowing:

Notes:

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Extinguishing media:	None needed
Further Information:	Slick when wet.

DOWELL PRODUCT CODE	: D020	Effective Date:	23-November-1999
Flash point:	an a	Not combustible.	
Method:		Not applicable	
Flammability (explosion li	mits in air):	·	
Lower:	Not applicable	Upper:	Not applicable
Autoflammability (auto-igi	nition temperature):		Not applicable
Explosive properties (the	mal decomposition	temperature):	Not determined
NFPA Rating: Health 0 I	lammability 0 Rea	ctivity 0 Other: None	
Combustion products: see	e 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 (68ºF)
Boiling point:	Not applicable
Pour point:	Not determined
Vapor pressure:	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 REACTIVIT	v		
10. STABILITY AND REACTIVIT Stability:	Y	Stable.	
	Y	Stable. None known	

Will not occur.

Not applicable.

Mildly irritating.

cause illness.

lung cancer.

Lung

None.

regulations.

None.

May cause mechanical irritation.

Not known to cause birth defects.

Not known to cause allergic reaction.

may cause mild irritation.

No effect expected. Prolonged or repeated contact

No effect expected. Swallowing large amounts may

crystalline silica. Inhalation of silica dust may cause

Not known to cause heritable genetic damage.

This product may contain small amounts of respirable

None.

None.

11. TOXICOLOGICAL INFORMATION

Hazardous decomposition products:

Hazardous Polymerization:

Dust explosion hazard (solids):

Eye contact: Skin contact:

Special hazards:

Inhalation: Ingestion:

Carcinogenicity:

Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization: Other:

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:

Container:

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations. Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local

USA EPA RCRA:

14. TRANSPORT INFORMATION

ICC Tariff Classification	Clay, NOI					
ICC Item Number:	48160	ICC Class:	50	LTL	35	TL
CERCLA RQ:	Not established.					

DOWELL PRODUCT CODE:	D020	Effective Date:	23-November-199	9
Department of Transporta	tion (DOT)			
Designation:	Not Regulated			
Hazard Class:	Not Regulated			
Shipping Name:	Not Regulated			
DOT Label:				
Canadian Shipments				
Shipping Name:	Not Regulated			
Label:				
Classification:	Pac	kage 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:

5 Lbs/S4



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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 SUBST	ANCE/PREPA	RATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or GILSONITE EXTENDER D24			
Company/undertaking identification	n:	Dowell Safety/Environm	nent - Worldwide
		300 Schlumberger Drive	e
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone	:	USA 1-281-285-7873	
2. COMPOSITION/INFORMATION O	N INGREDIEN	rs	
GILSONITE; CAS 12002-43-6; 60			
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 Flam	mability 1 Rea	ctivity 0	
May cause mechanical irritation	to eyes.		
See Section 11 for a complete of	discussion of he	ealth 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. irritation occurs.	Seek medical attention if
Notes:		None.	
5. FIRE FIGHTING MEASURES			
Extinguishing media:		Water Fog, Alcohol Foar	n, CO2, Dry Chemical
Further Information:		Wear protective fire fight breathing vapors. Use se apparatus in closed area	elf-contained breathing
Flash point:		> 212ºF	

DOWELL PRODUCT CO	ODE: D024	Effective Date:	23-November-1999		
Method:	να τη τημοριματί του του του το Νάτου το του το του το του του του του του	Not determined	k k k k k k k k k k k k k k k k k k k		
Flammability (explosi	ion limits in air):				
Lower:	Not determined	Upper:	Not determined		
Autoflammability (aut	to-ignition temperature):		Not determined		
Explosive properties	(thermal decomposition te	emperature):	Not determined		
NFPA Rating: Health	0 Flammability 1 React	livity 0 Other: None			
Combustion products	s: see Section 10.				
ACCIDENTAL RELE	ASE MEASURES				
After spillage/leakage) :	Scoop into con	tainers.		
See Section 8 for pro	tective equipment information	ation.			
See Section 13 for di	sposal information.				
. HANDLING AND STO	DRAGE				
Special Precautions:		Avoid generatir	ng dust.		
Packaging requireme	ints:		imum 3 ply), or other industrial ned for powders and granulated		
Ventilation:		Provide ventilat below exposure	tion to keep airborne concentrations e limits.		
. EXPOSURE CONTRO	DLS/PERSONAL PROTE	CTION			
Respiratory protection	n:	Use NIOSH app protection (3M	proved respirator with dust and mist 8710).		
Eye protection:		It is good practi	It is good practice to wear goggles when handling a chemical.		
Lyc protection.					
Hand protection:					

Exposure Limit Guidelines (mg/m3)

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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
Odor:	None
pH value:	Not applicable
Boiling point:	Not applicable
Pour point:	Not determined
Vapor pressure:	Not applicable
Relative density (specific gravity):	1.07 (68ºF)
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		
Nature		Inert		
0. STABILITY AND REACT	IVITY			
Stability:		Stable.		
Conditions to avoid:		None known		
Materials to avoid:		Oxidizers		
Hazardous Polymerization	:	Will not occur.		
Dust explosion hazard (so	lids):	No.		
Special hazards:		None.		
Hazardous decomposition	products:	When heated strongly or burned, oxides of carl and harmful organic chemical fumes are releas		
1. TOXICOLOGICAL INFOR	MATION			
Eye contact:		May cause mechanical irritation.		
Skin contact:		No effect expected. Prolonged or repeated con may cause mild irritation.	tact	
Inhalation:		No effect expected. Prolonged or repeated exp may cause mild irritation.	osure	
Ingestion:		No effect expected. Swallowing large amounts cause illness.	may	
Carcinogenicity:		Not listed by IARC, USA NTP, or USA OSHA.	Not listed by IARC, USA NTP, or USA OSHA.	
Mutagenicity:		Not known to cause heritable genetic damage.		
Teratogenicity:		Not known to cause birth defects.	Not known to cause birth defects.	
Target organs which may I	be affected:	None known.		
Sensitization:		Not known to cause allergic reaction.		
Other:		None.		
2. ECOLOGICAL INFORMA				
Information on product as		None beer		
Main environmental hazaro	JS.	None known. Not determined		
Degradability:		not determined		
3. DISPOSAL CONSIDERA	TIONS			
Product:		Dispose of by sanitary landfilling or other accep method in accordance with local regulations.	table	
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 INFORMAT	ION			
ICC Tariff Classification	Compound, Gas or	-		
ICC Item Number:	138640	CC Class: 50 LTL 35 TL		
CERCLA RQ:	Not established.			
	ion (DOT)			

DOWELL PRODUCT CODE:	D024	Effective Date:	23-November-1999	9
Designation:	Not Regulated	ge in a name of the second		
Hazard Class:	Not Regulated			
Shipping Name:	Not Regulated			
DOT Label:				
Canadian Shipments				
Shipping Name:	Not Regulated			
Label:				
Classification:	Pac	kage 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:

14 LBISK



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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 SUBSTAI	NCE/PREP	ARATION AND OF THE CO	OMPANY/UNDERTAKIN
Identification of the substance or pre CELLOPHANE FLAKE D29	eparation:		
Company/undertaking identification:		Dowell Safety/Environm	nent - Worldwide
		300 Schlumberger Drive	9
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone:		USA 1-281-285-7873	
2. COMPOSITION/INFORMATION ON	INGREDIEN	ITS	
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 Flamma	ability 0 Rea	activity 0	
May cause mechanical irritation to	o eyes.		
See Section 11 for a complete dis	cussion of h	ealth 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: Further Information:

Water Fog, Alcohol Foam, CO2, Dry Chemical Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

DOWELL PRODUCT CODE:	D029	Effective Date:	23-November-1999	
Flash point:		> 212ºF		
Method:		Not determined	Ł	
Flammability (explosion limits in	n air):			
Lower: Not d	etermined	Upper:	Not determined	
Autoflammability (auto-ignition	temperature):		Not determined	
Explosive properties (thermal d	ecomposition t	emperature):	Not determined	
NFPA Rating: Health 0 Flamn	nability 0 Read	tivity 0 Other: None		
Combustion products: see Sec	•	-		
6. ACCIDENTAL RELEASE MEA	SURES			
After spillage/leakage:		Scoop into con	tainers.	
See Section 8 for protective eq	uipment inform	ation.		
See Section 13 for disposal info	ormation.			
7. HANDLING AND STORAGE				
Special Precautions:		No special prec	cautions required.	
Packaging requirements:			Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.	
Ventilation:		Provide ventilation to keep airborne concentrati below exposure limits.		
8. EXPOSURE CONTROLS/PERS	SONAL PROTE	ECTION		
Respiratory protection:			needed. If dust or mist is generate proved respirator with dust and mi	

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

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Form:	- Flakes	
Color:	Clear	
Odor:	None	
pH value:	Not applicable	
Boiling point:	Not applicable	
Pour point:	Not determined	
Vapor pressure:	Not applicable	
Relative density (specific gravity):	Not available	
Bulk Density (solids):	688 kg/m3	
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.	
0. STABILITY AND REACTIVITY	<u>(</u>		
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 prod	ucts:		trongly or burned, oxides of carbon panic chemical fumes are released.
1. TOXICOLOGICAL INFORMAT			
Eye contact:		May cause med	hanical irritation.
Skin contact:		No effect expec may cause mild	ted. Prolonged or repeated contac irritation.
Inhalation:		No effect expec may cause mild	ted. Prolonged or repeated exposu irritation.
Ingestion:		No effect expec cause illness.	ted. Swallowing large amounts ma
Carcinogenicity:		Not listed by IAI	RC, USA NTP, or USA OSHA.
Mutagenicity:		Not known to ca	ause heritable genetic damage.

Mutagenicity:
Teratogenicity:
Target organs which may be affected:
Sensitization:
Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole:	
Main environmental hazards:	None known.
Degradability:	Not determined

None known.

None.

13. DISPOSAL CONSIDERATIONS

Product:

.

Container:

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

Not known to cause birth defects.

Not known to cause allergic reaction.

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations. None.

USA EPA RCRA:

14. TRANSPORT INFORMATION

ICC Tariff Classification	Compound, Gas c	or Oil Well Drilling				
ICC Item Number:	138640	ICC Class:	50	LTL	35	ΤL
CERCLA RQ:	Not established.					
Department of Transportation (DOT)						

DOWELL PRODUCT CODE: D029

Effective Date:

Designation: Hazard Class: Shipping Name: DOT Label:	Not Regulated Not Regulated Not Regulated	
Canadian Shipments Shipping Name: Label: Classification:	Not Regulated 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:



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 SUBS	TANCE/PREP/	ARATION AND OF THE CO	MPANY/UNDERTAKING
Identification of the substance or	preparation:		
GRANULATED SALT D44			
Company/undertaking identification:	on:	Dowell Safety/Environm	ient - Worldwide
		300 Schlumberger Drive	9
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone	e:	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
Color:	White
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.	
	C 1 1 1 1 1 1

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

DOWELL PRODUCT CODE: D044 Effective Date: 23-November-1999

Flammability (explosion limits in air):

Not applicable Not applicable

Not determined

Not applicable Upper: Lower: Autoflammability (auto-ignition temperature): Explosive properties (thermal decomposition temperature): NFPA Rating: Health 0 Flammability 0 Reactivity 0 Other: None Combustion products: see Section 10.

6. ACCIDENTAL RELEASE MEASURES

Scoop into containers. Flush residual with plenty of After spillage/leakage: 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:	2575°F
Pour point:	1474ºF
Vapor pressure:	0.13 kPa (865⁰F)
Relative density (specific gravity):	2.163 (68°F)
Bulk Density (solids):	1120 kg/m3
Solubility in water:	360 g/l (32°F)
Viscosity:	Not applicable
Relative Vapor Density (air=1):	Not applicable
% Volatile:	<3
Nature	Salt

Stable. None.

None.

illness.

Heart

None.

None known Will not occur. Not applicable.

Mildly irritating.

may cause mild irritation.

Prolonged or repeated exposure may damage skin. No effect expected. Prolonged or repeated exposure

LD50 (rats) is greater than 2000 mg/kg. No effect

expected. Swallowing large amounts may cause

Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage.

Not known to cause birth defects.

Not known to cause allergic reaction.

10. STABILITY AND REACTIVITY

Stability:
Conditions to avoid:
Materials to avoid:
Hazardous Polymerization:
Dust explosion hazard (solids):
Special hazards:
Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION

Eye contact:
Skin contact:
Inhalation:

Ingestion:

Carcinogenicity:	
Mutagenicity:	
Teratogenicity:	
Target organs which may be affe	cted:
Sensitization:	
Other:	

12. ECOLOGICAL INFORMATION

None known.
Not applicable
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 of	r Oil Well Drilling				
ICC Item Number:	138640	ICC Class:	50	LTL	35	TL
CERCLA RQ:	Not established.					
Department of Transportation	ion (DOT)					

Designation: Not Regulated

DOWELL PRODUCT CODE:		Effective Date:	23-November-1999	
Hazard Class: Shipping Name: DOT Label:	Not Regulated Not Regulated			
Canadian Shipments Shipping Name: Label:	Not Regulated			
Classification:	Pac	kage Group:	PIN: no	one

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:



0.2% BY W.T. OF UCLUME

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 SUBS	TANCE/PREPA	RATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or ANTIFOAM D46	r preparation:		
Company/undertaking identificati	on:	Dowell Safety/Environm	ient - Worldwide
		300 Schlumberger Drive	e .
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phon	e:	USA 1-281-285-7873	
2. COMPOSITION/INFORMATION		ſS	
POLYPROPYLENE GLYCOL; C			
FULLER'S EARTH (ATTAPULG)			
Ϋ́Υ.			
3. HAZARDS IDENTIFICATION			
Emergency Overview			
Form:		Powder	
Color:		Tan	
Odor:		Musty	
Main environmental hazards:			
None known.			
Main Physical Hazards			
Special Precautions:		None.	
Physical Hazard:		Dust	
Main Health Hazards:			
HMIS RATING: Health 0 Flar	mmability 1 Rea	ctivity 0	
May cause mechanical irritation	-	-	
See Section 11 for a complete	•	alth hazards.	
•			

4. FIRST AID MEASURES

k

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, WaterFurther Information:Wear protective fire fighting clothing and avoid
breathing vapors. Use self-contained breathing

tus in closed areas. PF -Martens CC r: Not determined Not determined Not determined Not determined : None nto containers. Flush residual with plenty of enerating dust. vag (minimum 3 ply), or other industrial er designed for powders and granulated Is. ventilation to keep airborne concentrations xposure limits.
enerating dust. verification to keep airborne concentrations
enerating dust. enerating dust. ag (minimum 3 ply), or other industrial er designed for powders and granulated ls.
Not determined Not de
Not determined Not de
Not determined Not determined None nto containers. Flush residual with plenty of enerating dust. bag (minimum 3 ply), or other industrial er designed for powders and granulated ls. ventilation to keep airborne concentrations
nto containers. Flush residual with plenty of enerating dust. (minimum 3 ply), or other industrial er designed for powders and granulated ls.
into containers. Flush residual with plenty of enerating dust. bag (minimum 3 ply), or other industrial er designed for powders and granulated ls.
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bag (minimum 3 ply), or other industrial er designed for powders and granulated ls. • ventilation to keep airborne concentrations
bag (minimum 3 ply), or other industrial er designed for powders and granulated ls. • ventilation to keep airborne concentrations
er designed for powders and granulated ls. ventilation to keep airborne concentrations
ormally needed. If dust or mist is generated OSH approved respirator with dust and mist on (3M 8710).
al splash goggles.
gloves.
body-covering clothing.
OSH approved ro on (3M 8710). al splash goggle gloves.

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Relative density (specific gravity):

Bulk Density (solids): Solubility in water: 1.5 (68ºF)

816 kg/m3

Insoluble

DOWELL PRODUCT CODE:

Effective Date:

23-November-1999

JOWELL PRODUCT CODE:	D040	Effective Date.	23-NOVember-1995
Viscosity:		Not applicable	
Relative Vapor Density (air=1):		Low	
% Volatile:		<1	
Nature		Surfactant	

0040

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 Oxidizers Will not occur. No. None. When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact:

Inhalation:

Ingestion:

Carcinogenicity:	
Mutagenicity:	
Teratogenicity:	
Target organs which may be affected	d:
Sensitization:	
Other:	

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability: Fish Toxicity:

May cause mechanical irritation.

No effect expected. Prolonged or repeated contact may cause mild irritation.

No effect expected. Prolonged or repeated exposure may cause mild irritation.

No effect expected. Swallowing large amounts may cause illness.

Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage. Not known to cause birth defects.

None known.

Not known to cause allergic reaction. None.

None known. Partially biodegradable. Low toxicity to fish.

13. DISPOSAL CONSIDERATIONS

Product:

Container:

USA EPA RCRA:

Ship via permitted waste hauler to permitted hazardous waste disposal facility for landfilling.

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.

None.

DOWELL PRODUCT CODE:	D046	Effective Date:	23-Nov	ember-19	99	
14. TRANSPORT INFORMA	TION				,	•
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 Transporta	tion (DOT)					
Designation: Hazard Class: Shipping Name: DOT Label:	Not Regulated Not Regulated Not Regulated					
Canadian Shipments Shipping Name: Label:	Not Regulated					
Classification:	Pac	ckage Group:		PIN:	non	e

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:

35% TO 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 SUBST	ANCE/PREP	ARATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or p LITEPOZ 6 EXTENDER D48	reparation:		
Company/undertaking identification	1:	Dowell Safety/Environn	nent - Worldwide
		300 Schlumberger Drive	е
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone:		USA 1-281-285-7873	
2 COMPOSITION/INFORMATION ON		ITS	

COMPOSITIO

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.

None. None needed None known. Not combustible Not applicable Upper: Derature): y 0 Other: None	e. Not applicable Not applicable Not determined
None known. Not combustible Not applicable Upper: perature):	Not applicable Not applicable
None known. Not combustible Not applicable Upper: perature):	Not applicable Not applicable
Not combustible Not applicable Upper: perature):	Not applicable Not applicable
Not applicable Upper: perature):	Not applicable Not applicable
Upper: oerature):	Not applicable
perature):	Not applicable
perature):	Not applicable
	••
	Not determined
y 0 Other: None	
Vacuum up. Avo	bid generating dust.
n.	
Keep material d	ry.
	mum 3 ply), or other industrial ned for powders and granulated
Provide ventilation to keep airborne concentration below exposure limits.	
ION	
protection (3M 8	roved respirator with dust and misi 710). If dust concentration exceed ure limit, wear an approved HEPA
Chemical splash	goggles.
	es made of: Rubber
Clean, body-cov	
	n. Keep material d Paper bag (mini container desigr materials. Provide ventilati below exposure ION Use NIOSH app protection (3M 8 times the exposi respirator. Chemical splash Impervious glove

Exposure Limit Guidelines (mg/m3)

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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:

Powder Tan to gray

Typical

Not applicable

Not determined Not determined

Not applicable

2.2-2.6 (68°F)

Not determined Miscible with water

Not applicable

Not applicable

<6 Inert 24-January-2000

	CRYST	TALLINE SILICA	ALUMI	NUM OXIDE	HEMAT TRIOXI	TITE (DIIRON DE)
	TWA	STEL ANM	TWA	STEL ANM	TWA	STEL ANM
CANADA	ND	ND	ND	ND	ND	ND
USA: ACGIH	0.1	NE	10	NE	5	NE
USA: NIOSH	5	NE				
USA: OSHA	0.1	NE	5	NE	10	NE

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

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: Skin contact: Inhalation:

Ingestion:

Carcinogenicity:

Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization:

Irritant. May cause pain, redness, discomfort.

Irritant; may cause pain, redness, dermatitis.

Repeated exposure to silica dust may cause silicosis. Irritant; may cause pain and coughing.

Irritant; may cause pain or discomfort to mouth, throat and stomach.

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.

Not known to cause birth defects.

Lung

Not known to cause allergic reaction.

DOWELL PRODUCT CODE	: D048	Effective Date:	24-January-200	00
Other:		None.	••••	·····
12. ECOLOGICAL INFORM	ATION	•		
Information on product as	s a whole:			
Main environmental haza	rds:	None known.		
Degradability:		Not applicable		
13. DISPOSAL CONSIDER	ATIONS			
Product:			anitary landfilling or rdance with local r	or other acceptable regulations.
Container:		types of contain	gs to sanitary land lers unuseable by unitary landfill unle	
USA EPA RCRA:		None.		
14. TRANSPORT INFORMA	TION			
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 Transporta	ation (DOT)			
Designation:	Not Regulated			
Hazard Class:	Not Regulated			
Shipping Name:	Not Regulated			
DOT Label:				
Canadian Shipments				
Shipping Name: Label:	Not Regulated			
Classification:	Pac	ckage 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

D048

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 SU	JBSTANCE/PREPARAT	ON 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:	

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	an a	
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 determined
Explosive properties (thermal decomposition ter	nperature):	Not determined
NFPA Rating: Health 1 Flammability 0 Reactive	vity 0 Other: None	
Combustion products: see Section 10.		
ACCIDENTAL RELEASE MEASURES		
After spillage/leakage:	Scoop into contair water.	ners. Flush residual with plenty of
See Section 8 for protective equipment informat	ion.	
See Section 13 for disposal information.		
·		
. HANDLING AND STORAGE	Keen material dry	
. HANDLING AND STORAGE Special Precautions:	Keep material dry.	
. HANDLING AND STORAGE	Paper bag (minim	um 3 ply), or other industrial d for powders and granulated
. HANDLING AND STORAGE Special Precautions:	Paper bag (minim container designed materials.	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations
<u>. HANDLING AND STORAGE</u> Special Precautions: Packaging requirements:	Paper bag (minim container designed materials. Provide ventilation below exposure lin	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations
<u>. HANDLING AND STORAGE</u> Special Precautions: Packaging requirements: Ventilation:	Paper bag (minimu container designed materials. Provide ventilation below exposure lin	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations nits. ved respirator with dust and mist
<u>. HANDLING AND STORAGE</u> Special Precautions: Packaging requirements: Ventilation: <u>. EXPOSURE CONTROLS/PERSONAL PROTEC</u>	Paper bag (minimi container designed materials. Provide ventilation below exposure lin <u>cTION</u> Use NIOSH appro	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations nits. ved respirator with dust and mist 10).
HANDLING AND STORAGE Special Precautions: Packaging requirements: Ventilation: EXPOSURE CONTROLS/PERSONAL PROTEC Respiratory protection:	Paper bag (minim container designed materials. Provide ventilation below exposure lin <u>TION</u> Use NIOSH appro protection (3M 87)	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations nits. ved respirator with dust and mist 10). oggles.
HANDLING AND STORAGE Special Precautions: Packaging requirements: Ventilation: EXPOSURE CONTROLS/PERSONAL PROTECTION: Eye protection:	Paper bag (minimic container designed materials. Provide ventilation below exposure line CION Use NIOSH appro protection (3M 872 Chemical splash g	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations nits. ved respirator with dust and mist I0). oggles. made of: Rubber
HANDLING AND STORAGE Special Precautions: Packaging requirements: Ventilation: Exposure controls/personal protect Respiratory protection: Eye protection: Hand protection: Skin protection:	Paper bag (minim container designed materials. Provide ventilation below exposure lin TION Use NIOSH appro protection (3M 87 Chemical splash g Impervious gloves	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations nits. ved respirator with dust and mist I0). oggles. made of: Rubber
HANDLING AND STORAGE Special Precautions: Packaging requirements: Ventilation: EXPOSURE CONTROLS/PERSONAL PROTECT Respiratory protection: Eye protection: Hand protection:	Paper bag (minimic container designed materials. Provide ventilation below exposure line TION Use NIOSH appro protection (3M 871 Chemical splash g Impervious gloves Clean, body-cover	um 3 ply), or other industrial d for powders and granulated to keep airborne concentrations nits. ved respirator with dust and mist I0). oggles. made of: Rubber

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder
Color:	Gray
Odor:	Typical
pH value:	Not applicable
Boiling point:	Not applicable
Pour point:	Not applicable
Vapor pressure:	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 w	
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):	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:	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: Fish Toxicity:

13. DISPOSAL CONSIDERATIONS

Product:

Container:

USA EPA RCRA:

None known. Not applicable Low toxicity to fish.

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.

None

OWELL PRODUCT CODE:	D049	Effective Date:	14-Apr	1-2000		
4. TRANSPORT INFORMA	TION		·	n type i i i i i		
ICC Tariff Classification	Cement					
ICC Item Number:	42130	ICC Class:	50	LTL	35	ΤL
CERCLA RQ:	Not established.					
Department of Transporta	tion (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
Shipping Name: DOT Label:	Not Regulated					
Canadian Shipments						
Shipping Name: Label:	Not Regulated					
Classification:	Pac	kage Group:		PIN:	non	е

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



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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 SUBS			
Identification of the substance o	r 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 Re	activity 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):	

DOWELL PRODUCT	CODE:	D053	Effective Date:	23-November-1999
Lower:	Not a	applicable	Upper:	Not applicable
Autoflammability (a	uto-ignition	temperature):	:	Not applicable
Explosive properties (thermal decomposition temperature):		Not determined		
NFPA Rating: Heal	th 0 Flamr	nability 0 Rea	activity 0 Other: None	
Combustion produc	cts: see Sec	tion 10.		
6. ACCIDENTAL REL	EASE MEA	SURES		
After spillage/leaka	qe:		Scoop into cont	tainers.

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
Pour point:	Not applicable
Vapor pressure:	Not applicable
Relative density (specific gravity):	2.4 (68°F)
Bulk Density (solids):	800-1300 kg/m3
Solubility in water:	3 g/l (68ºF)
Viscosity:	Not applicable
Relative Vapor Density (air=1):	Not applicable
% Volatile:	0
Nature	Salt

ate: 23-November-1999	
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nown	
occur.	
licable.	
use mechanical irritation.	
t expected. Prolonged or repeated contact use mild irritation.	
t expected. Prolonged or repeated exposure use mild irritation.	
ritating.	
d by IARC, USA NTP, or USA OSHA.	
wn to cause heritable genetic damage.	
wn to cause birth defects.	
own.	
wn to cause allergic reaction.	
own.	
icable	
Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.	
Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.	
ng	
50 LTL 35 TL	

Hazard Class: Shipping Name: Not Regulated DOT Label:
DOWELL PRODUCT COE		Effective Date:	23-November-1999	
Canadian Shipments				
Shipping Name: Label:	Not Regulated			

Label.			
Classification:	Package Group:	PIN:	none

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:



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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 SUBS	TANCE/PREP	ARATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or TIC* D65 DISPERSANT	preparation:		
Company/undertaking identificati	on:	Dowell Safety/Environm	nent - Worldwide
		300 Schlumberger Drive	e
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phon	e:	USA 1-281-285-7873	
2. COMPOSITION/INFORMATION		ITS	
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: Further Information: Water Fog, Alcohol Foam, CO2, Dry Chemical, Water Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

DOWELL PRODUCT COD	E: D065	Effective Date:	23-November-1999
Flash point:	······································	> 212ºF	n an an ann an anns an anns an
Method:		Setaflash CC	
Flammability (explosion	limits in air):		
Lower:	Not determined	Upper:	Not determined
Autoflammability (auto-ig	nition temperature):		Not determined
Explosive properties (the	ermal decomposition	temperature):	Not determined
NFPA Rating: Health 2	Flammability 1 Rea	ctivity 0 Other: None	
Combustion products: se	e 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 (68ºF) (at 10 g/l)
Boiling point:	Not applicable
Pour point:	Not determined
Vapor pressure:	Not determined
Relative density (specific gravity):	0.8 (68ºF)
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:	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, sulfur oxides and harmful organic chemical fumes a 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 exposur may cause mild irritation.			
Inhalation: Ingestion:	No effect expected. Prolonged or repeated exposur may cause mild irritation. No effect expected. Swallowing large amounts may cause illness. LD50 (rats) > 2000 mg/kg			
Ingestion:	may cause mild irritation. No effect expected. Swallowing large amounts may			
	may cause mild irritation. No effect expected. Swallowing large amounts may cause illness. LD50 (rats) > 2000 mg/kg			
Ingestion: Carcinogenicity:	may cause mild irritation. No effect expected. Swallowing large amounts may cause illness. LD50 (rats) > 2000 mg/kg Not listed by IARC, USA NTP, or USA OSHA.			
Ingestion: Carcinogenicity: Mutagenicity:	may cause mild irritation. No effect expected. Swallowing large amounts may cause illness. LD50 (rats) > 2000 mg/kg Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage.			
Ingestion: Carcinogenicity: Mutagenicity: Teratogenicity:	may cause mild irritation. No effect expected. Swallowing large amounts may cause illness. LD50 (rats) > 2000 mg/kg Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage. Not known to cause birth defects.			

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

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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 Effective Date:		23-November-1999		
USA EPA RCRA:	· · · · · · · · · · · · · · · · · · ·	regulations. None			
14. TRANSPORT INFORMA	TION				
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 Transporta	tion (DOT)				
Designation:	Not Regulated				
Hazard Class:	Not Regulated				
Shipping Name: DOT Label:	Not Regulated				
Canadian Shipments					
Shipping Name: Label:	Not Regulated				
Classification:	Pa	ckage Group:		PIN:	none

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:

Schlumberger

10% o-6 UBASE UOLUME 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 SUBS	TANCE/PREP	ARATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or SILICA FLOUR D66	preparation:		
Company/undertaking identification	on:	Dowell Safety/Environm	nent - Worldwide
		300 Schlumberger Drive	9
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone	e:	USA 1-281-285-7873	
2. COMPOSITION/INFORMATION	ON INGREDIEN	ITS	
CRYSTALLINE SILICA; CAS 14	808-60-7; 60-1	00%	
3. HAZARDS IDENTIFICATION			
Emergency Overview			
Form:		Powder	
Color:		White to tan	
Odor:		None	
Main environmental hazards:			
None known.			
Main Physical Hazards			
Special Precautions:		None.	
Physical Hazard:		Dust	
Main Health Hazards:			
HMIS RATING: Health 0 Flar	nmability 0 Rea	activity 0	
May cause lung cancer if inhal dust may cause silicosis. May	ed. Risk of can	cer depends on duration an	d level of exposure. Silica

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.

DOWELL PRODUCT CO	DE: D066	Effective Date:	24-January-2000	
Method:	an an an an an an an ann an an an an an	Not applicable	n an an an ann an ann an ann an an an an	
Flammability (explosic	on 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 Read	ctivity 0 Other: None		
Combustion products:	see Section 10.			
5. ACCIDENTAL RELEA	SE MEASURES			
After spillage/leakage:		Vacuum up. Av	void generating dust.	
See Section 8 for prot	ective equipment inform	nation.		
See Section 13 for dis	posal information.			
. HANDLING AND STO	RAGE			
Special Precautions:		Avoid generati	ng dust.	
Packaging requiremer	its:		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.	
. EXPOSURE CONTRO	LS/PERSONAL PROT	ECTION		
Respiratory protection:		protection (3M	proved respirator with dust and mist 8710). If dust concentration exceeds sure limit, wear an approved HEPA	

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	ND	ND		
USA: ACGIH	0.1	NE		
USA: OSHA	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

- Pour point: Vapor pressure: Relative density (specific gravity): Bulk Density (solids): Solubility in water: Viscosity: Relative Vapor Density (air=1): % Volatile: Nature
- Not applicable Not applicable 2.6 (68°F) 1120 kg/m3 Insoluble Not applicable Not applicable 0 Inert

Stable.

None.

None.

None known

None known

Will not occur.

Not applicable.

10. STABILITY AND REACTIVITY

Stability: Conditions to avoid: Materials to avoid: Hazardous Polymerization: Dust explosion hazard (solids): Special hazards: Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact:

Inhalation: Ingestion:

Carcinogenicity:

Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization: Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability: Fish Toxicity:

13. DISPOSAL CONSIDERATIONS

Product:

Container:

May cause mechanical irritation.

No effect expected. Prolonged or repeated contact may cause mild irritation.

Repeated exposure to silica dust may cause silicosis.

No effect expected. Swallowing large amounts may cause illness.

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.

Not known to cause birth defects.

Lung

Not known to cause allergic reaction. None.

None known. Not applicable Low toxicity to fish.

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

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:	D066	Effective Date:	24-Jan	uary-2000	-,	
USA EPA RCRA:		regulations. None				
14. TRANSPORT INFORMAT	<u>FION</u>					
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 Transportat	ion (DOT)					
Designation:	Not Regulated					
Hazard Class: Shipping Name: DOT Label:	Not Regulated Not Regulated					
Canadian Shipments Shipping Name: Label:	Not Regulated					
Classification:	Pa	ckage Group:		PIN:	non	e

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

306 BY WT. OF BASE



MATERIAL SAFETY DATA SHEET

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

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DOWELL PRODUCT CODE:	D	079	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 Hezerde:	

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

Eye 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.

DOWELL PRODUCT CODE: D079 Effective Date: 23-November-1999 5. FIRE FIGHTING MEASURES None needed Extinguishing media: None known. Further Information: Not combustible. Flash point: Not applicable Method: Flammability (explosion limits in air): Not applicable Upper: Not applicable Lower: Not applicable Autoflammability (auto-ignition temperature): 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:	Not applicable
Pour point:	1990°F
Vapor pressure:	Not applicable
Relative density (specific gravity):	2.4 (72°F)
Bulk Density (solids):	Not determined
Solubility in water:	270 (86ºF)

DOWELL PRODUCT CODE:

Effective Date:

23-November-1999

Viscosity:
Relative Vapor Density (air=1):
% Volatile:
Nature

Not applicable Not applicable 0 Alkaline

10. STABILITY AND REACTIVITY

Stability:StaConditions to avoid:NorMaterials to avoid:AciHazardous Polymerization:WilDust explosion hazard (solids):NorSpecial hazards:NorHazardous decomposition products:Nor

D079

11. TOXICOLOGICAL INFORMATION

Eye contact:

Skin contact:

Inhalation:

Ingestion:

Carcinogenicity: Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization: Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability:

13. DISPOSAL CONSIDERATIONS

Product:

Container:

USA EPA RCRA:

Stable. None known Acids Will not occur. Not applicable. None. None.

Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.

Corrosive; rapidly causes pain, burns, redness, swelling and damage to tissue.

Severe irritant; causes pain, choking, coughing, burning sensation.

Corrosive; causes pain and severe burns to mouth, throat and stomach. Harmful if swallowed; large amounts may cause illness. LD50 (rats) 1153 mg/kg Not listed by IARC, USA NTP, or USA OSHA.

Not known to cause heritable genetic damage.

Not known to cause birth defects.

Reproductive

Not known to cause allergic reaction.

May cause dizziness, nausea, vomiting, diarrhea.

None known. Not applicable

Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.

Sell to approved drum reconditioner or render container unuseable by puncturing or crushing. Send to sanitary landfill unless prohibited by local regulations.

D002

DOWELL PRODUCT CODE:	D079	Effective I	Date:	23-Nove	mber-199	99	<u> </u>
14. TRANSPORT INFORMA	TION				··		, namejan i si ki a
ICC Tariff Classification	Compound, C	Gas or Oil Well Dril	ling				
ICC Item Number:	138640	ICC Class:		50	LTL	35	TL
CERCLA RQ:	Not establish	ed.					
Department of Transporta	tion (DOT)						
Designation:	Hazardous M	aterial					
Hazard Class:	8						
Shipping Name:	Corrosive so 3262, PG II	lid, basic, inorgani	c, n.o.s. (c	ontains s	odium me	etasili	cate), 8, UN
DOT Label:	Corrosive 8						
Canadian Shipments							
Shipping Name:	Corrosive soli	d, n.o.s. (contains	sodium me	etasilicate	e)		
Label:	Corrosive 8						
Classification:	8, 9.2	Package Group:	11		PIN:	UN	1759

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: E ,D2B,E

16. OTHER INFORMATION

Sections affected by last revision:



0,5% BY WT. OF BASC MATERIAL SAFETY DATA SHEET

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

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DOWELL PRODUCT CODE:	D112	Effective Date:	23-November-1999
1. IDENTIFICATION OF THE SUBSTAN	CE/PREP/	ARATION AND OF THE C	OMPANY/UNDERTAKING
Identification of the substance or prep FLAC* D112 FLUID-LOSS ADDIT			
Company/undertaking identification:		Dowell Safety/Environn	
		300 Schlumberger Drive	
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	<i>i</i>
Corporate Non-Emergency Phone:		USA 1-281-285-7873	
2. COMPOSITION/INFORMATION ON IN	IGREDIEN	ITS	
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 Flammat	oility 1 Rea	activity 0	
May be mildly irritating to eyes.	·		
See Section 11 for a complete discu	ussion of h	ealth hazards.	
4. FIRST AID MEASURES			
Eye contact:		Immediately flush eyes where holding eyelids open. See	with water for 15 minutes while eek medical attention.
Skin contact:		Rinse with water.	
Inhalation:		Remove to fresh air.	
Swallowing:		Rinse mouth with water. irritation occurs.	Seek medical attention if
Notes:		None.	
5. FIRE FIGHTING MEASURES			
Extinguishing media:		Water Fog, Alcohol Foar	n, CO2, Dry Chemical
Further Information:		Wear protective fire fight	ling clothing and avoid

Page 1 of 4

breathing vapors. Use self-contained breathing

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DOWELL PRODUCT CODE: D112	2 Effective Date: 23-November-1999
	apparatus in closed areas.
Flash point:	> 212ºF
Method:	Not determined
Flammability (explosion limits in air):	
Lower: 2.4%	Upper: Not determined
Autoflammability (auto-ignition temperat	
Explosive properties (thermal decompos	-
NFPA Rating: Health 0 Flammability 1	
Combustion products: see Section 10.	
6. ACCIDENTAL RELEASE MEASURES	
After spillage/leakage:	Scoop into containers. Avoid generating dust. U water carefully; slick when wet. If vacuum swee used, it must be rated to handle explosive dusts
See Section 8 for protective equipment i	information.
See Section 13 for disposal information.	
7. HANDLING AND STORAGE	
Special Precautions:	Avoid wetting spilled material. Avoid generating
Packaging requirements:	Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.
Ventilation:	Provide ventilation to keep airborne concentration below exposure limits.
8. EXPOSURE CONTROLS/PERSONAL P	ROTECTION
Respiratory protection:	Use NIOSH approved respirator with dust and m 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 exposi	ure limits.
Dust particles: total = 10 mg/m3, respiral	
9. PHYSICAL AND CHEMICAL PROPERT	IES
Form:	Powder
Color:	White
Odor:	None
pH value:	6.5-8.5 (68ºF) (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

DOWELL PRODUCT CODE: D112	Effective Date: 23-November-1999
Viscosity:	Not applicable
Relative Vapor Density (air=1):	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 exposur 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:	Blood
Sensitization:	Not known to cause allergic reaction.
Other:	None.
2. ECOLOGICAL INFORMATION	
Information on product as a whole:	
Main environmental hazards:	None known.

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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:

DOWELL PRODUCT CODE	D112	Effective Date:	23-Nove	mber-199	99	· · · · · · · · · · · · · · · · · · ·	
13. DISPOSAL CONSIDERA	TIONS			n i nier napismei			
Product:		Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.					
Container:		Send empty ba types of contain crushing and sa regulations.	ners unusea	ble by pu	inctur	ing or	
USA EPA RCRA:		None					
14. TRANSPORT INFORMA	TION						
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 Transporta	tion (DOT)						
Designation:	Not Regulated						
Hazard Class:	Not Regulated						
Shipping Name:	Not Regulated						
DOT Label:							
Canadian Shipments							
Shipping Name: Label:	Not Regulated						
Classification:	Pac	kage Group:		PIN:	non	e	

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.

16. OTHER INFORMATION

Sections affected by last revision:



42.97 268./SAC4

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 SUBSTA			MPANY/UNDERTAKING
Identification of the substance or pu LITEFIL* D124 EXTENDER	reparation:		
Company/undertaking identification	:	Dowell Safety/Environm 300 Schlumberger Drive	9
Corporate Emergency Phone:		Sugar Land, Texas 774 USA 1-281-595-3518	78, USA

Corporate Emergency Phone: USA 1-281-285-7873 Corporate Non-Emergency Phone:

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 F	Reactivity 0
May cause mechanical irritation to eyes.	

See Section 11 for a complete discussion of health hazards.

4. FIRST AID MEASURES

Flash point:

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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.		

Not combustible.

DOWELL PRODUCT CODE:	D124	Effective Date:	23-November-1999
Method:	a ang ang ang ang ang ang ang ang ang an	Not applicable	
Flammability (explosion limits	in air):		
Lower: Not	applicable	Upper:	Not applicable
Autoflammability (auto-ignition	temperature):		Not applicable
Explosive properties (thermal	decomposition t	emperature):	Not determined
NFPA Rating: Health 0 Flam	mability 0 Read	tivity 0 Other: None	
Combustion products: see See	ction 10.		
6. ACCIDENTAL RELEASE ME	ASURES		
After spillage/leakage:		Scoop into con water.	tainers. Flush residual with plenty o
See Section 8 for protective e	quipment inform	ation.	
See Section 13 for disposal in	formation.		
7. HANDLING AND STORAGE			
Special Precautions:		Keep material	dry.
Packaging requirements:			nimum 3 ply), or other industrial ned for powders and granulated
Ventilation:		Provide ventila below exposure	tion to keep airborne concentrations e limits.
3. EXPOSURE CONTROLS/PER	SONAL PROTE	ECTION	
Respiratory protection:		Use NIOSH ap protection (3M	proved respirator with dust and mist 8710).
Eye protection:		Chemical splas	sh goggles.
Hand protection:		Cotton gloves.	
Skin protection:		Clean, body-co	vering clothing.
Exposure Limit Guidelines (m	1/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
Pour point:	Not determined
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
	·

DOWELL	PRODL	ICT CC	DE:

Effective Date:

D124

Nature

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:	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 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 c	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

DOWELL PRODUCT CODE:	D124	Effective Date:	23-November-199	
Hazard Class:	Not Regulated			· · · · · · · · · · · · · · · · · · ·
Shipping Name:	Not Regulated			
DOT Label:				
Canadian Shipments				
Shipping Name:	Not Regulated			
Label:				
Classification:	Pa	ckage Group:	PIN:	none

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:

5.18 Lbs/SACH



MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:	D154	Effective Date:	
1. IDENTIFICATION OF THE SUBSTAN	ICE/PREP	ARATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or prep LOW-TEMPERATURE EXTENDE	paration:		
Company/undertaking identification:		Dowell Safety/Environm 300 Schlumberger Drive	
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone:		USA 1-281-285-7873	
2. COMPOSITION/INFORMATION ON I	NGREDIEN	ITS	
PROPRIETARY MIXTURE CONTAIN			
NONCRYSTALLINE SILICA; 60-100			
CARBON; CAS 7440-44-0; 0-3%	,,,		
INORGANIC OXYGEN COMPOUND;	<2%		
INORGANIC OXYGEN COMPOUND;			
3. HAZARDS IDENTIFICATION			
Emergency Overview		Devider	
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 Flamma	-	-	
This product may contain small am cause lung cancer. Silica dust may			halation of silica dust may
See Section 11 for a complete disc	ussion of h	ealth hazards.	
4. FIRST AID MEASURES			
Eye contact:		Rinse with water.	
Skin contact:		Rinse with water.	
Inhalation:		Remove to fresh air. See persists or you feel unwe	ek medical attention if irritation
Swallowing:		Rinse mouth with water. irritation occurs.	Seek medical attention if
Notes:		None.	

DOWELL PRODUCT CODE:	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 ap	plicable	Upper:	Not applicable
Autoflammability (auto-ignition t	emperature):		> (200ºF)
Explosive properties (thermal de	ecomposition	temperature):	Not determined
NFPA Rating: Health 0 Flamm	ability 0 Rea	ctivity 0 Other: None	
Combustion products: see Secti	on 10.		
6. ACCIDENTAL RELEASE MEAS	URES		
After spillage/leakage:		Vacuum up. Avo	bid generating dust.
See Section 8 for protective equ	ipment inform	nation.	
See Section 13 for disposal info	rmation.		
7. HANDLING AND STORAGE			
Special Precautions:		Avoid generating	
Packaging requirements:			mum 3 ply), or other industrial led for powders and granulated
Ventilation:		Provide ventilation below exposure	on to keep airborne concentrations limits.
8. EXPOSURE CONTROLS/PERS	ONAL PROT	ECTION	
Respiratory protection:		protection (3M 8	roved respirator with dust and mist 710). If dust concentration exceeds sure limit, wear an approved HEPA
Eye protection:		It is good practic chemical.	e to wear goggles when handling any
Hand protection:		Cotton gloves.	
Skin protection:		Clean, body-cov	ering clothing.
Exposure Limit Guidelines (mg/r	n3)		
Components having no establish	-	not listed.	
(NE: Not established, ND: Not d		· ·	

2. 3¹²0 1948 1949

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).

1.

DOWELL PRODUCT CODE: D154 Effective Date: 30-June-2000

	NONCF SILICA	RYSTALLINE	INORG COMPO	ANIC OXYGEN DUND	INORG/ COMPC	ANIC OXYGEN DUND
	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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder
Color:	Gray to white
Odor:	None
pH value:	Not applicable
Boiling point:	Not applicable
Pour point:	3115°F
Vapor pressure:	Not applicable
Relative density (specific gravity):	2.1
Bulk Density (solids):	500-600 kg/m3
Solubility in water:	Insoluble
Viscosity:	Not applicable
Relative Vapor Density (air=1):	Not applicable
% 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.
Hazardous decomposition products:	None.

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.
Mutagenicity:	Not known to cause heritable genetic damage.
Teratogenicity:	Not known to cause birth defects.

OWELL PRODUCT CODE	E: D154	Effective Date:	30-Jur	ne-2000		
Target organs which may	y be affected:	None known.				
Sensitization:		Not known to c	ause allei	rgic reaction	on.	
Other:		None.				
2. ECOLOGICAL INFORM	ATION					
Information on product a	s a whole:					
Main environmental haza	ards:	None known.				
Degradability:		Not applicable				
. DISPOSAL CONSIDER	ATIONS					
Product:		Dispose of by s method in acco				
Container:		Send empty ba types of contain crushing and sa regulations.	ners unus	eable by p	unctu	iring or
USA EPA RCRA:		None				
. TRANSPORT INFORMA	TION					
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 Transporta	ation (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
Shipping Name:	Not Regulated					
DOT Label:	•					
Canadian Shipments						
Shipping Name:	Not Regulated					
Label:						

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.

D154

16. OTHER INFORMATION

Sections affected by last revision: PHYSICAL AND CHEMICAL PROPERTIES



0.15% BY WT.

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
1. IDENTIFICATION OF THE SUBSTANCE/PREP	ARATION AND OF THE COMPANY/UNDERTAKING
Identification of the substance or preparation: LOW-TEMPERATURE FLUID-LOSS ADDIT	TIVE D156
Company/undertaking identification:	Dowell Safety/Environment - Worldwide 300 Schlumberger Drive Sugar Land, Texas 77478, USA
	Sugar Land, Texas 17470, USA
Corporate Emergency Phone:	USA 1-281-595-3518
Corporate Non-Emergency Phone:	USA 1-281-285-7873
2. COMPOSITION/INFORMATION ON INGREDIE	NTS
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 Re	activity 0
May be mildly irritating to eyes.	
See Section 11 for a complete discussion of I	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 to apparatus in closed areas. Slick when Suspended dust may present a dust en hazard. Flash point: > 212°F Method: Calculated Flammability (explosion limits in air): Lower: Lower: Not determined Autoflammability (auto-ignition temperature): 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. Avoid generating water carefully; slick when wet. If vacu used, it must be rated to handle explose See Section 13 for disposal information.	n wet. xplosion g dust. Use um sweeper i
Method: Calculated Flammability (explosion limits in air): Lower: Not determined Lower: Not determined Upper: Not determined Autoflammability (auto-ignition temperature): Not determined Not determined Explosive properties (thermal decomposition temperature): Not determined NFPA Rating: Health 2 Flammability 1 Reactivity 0 Other: None Not determined Combustion products: see Section 10. Scoop into containers. Avoid generating After spillage/leakage: Scoop into containers. Avoid generating See Section 8 for protective equipment information. Scoop into containers.	l Ig dust. Use um sweeper i
Flammability (explosion limits in air): Not determined Upper: Not determined Autoflammability (auto-ignition temperature): Not determined Not determined Autoflammability (auto-ignition temperature): Not determined Not determined Explosive properties (thermal decomposition temperature): Not determined NFPA Rating: Health 2 Flammability 1 Reactivity 0 Other: None Not determined Combustion products: see Section 10. Scoop into containers. Avoid generating Matter spillage/leakage: Scoop into containers. Avoid generating See Section 8 for protective equipment information. Scoop into containers.	l Ig dust. Use um sweeper i
Lower:Not determinedUpper:Not determinedAutoflammability (auto-ignition temperature):Not determinedExplosive properties (thermal decomposition temperature):Not determinedNFPA Rating: Health 2 Flammability 1 Reactivity 0 Other: NoneNot determinedCombustion products: see Section 10.Scoop into containers. Avoid generatingAfter spillage/leakage:Scoop into containers. Avoid generatingSee Section 8 for protective equipment information.Scoop into containers. Avoid generating	l Ig dust. Use um sweeper i
Autoflammability (auto-ignition temperature): Not determined Explosive properties (thermal decomposition temperature): Not determined NFPA Rating: Health 2 Flammability 1 Reactivity 0 Other: None Not determined Combustion products: see Section 10. Scoop into containers. Avoid generating After spillage/leakage: Scoop into containers. Avoid generating water carefully; slick when wet. If vacuused, it must be rated to handle explose See Section 8 for protective equipment information.	l Ig dust. Use um sweeper i
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. Avoid generating water carefully; slick when wet. If vacuused, it must be rated to handle explose See Section 8 for protective equipment information.	ig dust. Use um sweeper i
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 generatin water carefully; slick when wet. If vacu used, it must be rated to handle explose See Section 8 for protective equipment information.	ig dust. Use um sweeper i
Combustion products: see Section 10.	um sweeper i
6. ACCIDENTAL RELEASE MEASURES After spillage/leakage: Scoop into containers. Avoid generatin water carefully; slick when wet. If vacu used, it must be rated to handle explose See Section 8 for protective equipment information.	um sweeper i
After spillage/leakage: Scoop into containers. Avoid generatin water carefully; slick when wet. If vacu used, it must be rated to handle explose See Section 8 for protective equipment information.	um sweeper i
After spillage/leakage: Scoop into containers. Avoid generatin water carefully; slick when wet. If vacu used, it must be rated to handle explose See Section 8 for protective equipment information.	um sweeper i
See Section 13 for disposal information.	
•	
7. HANDLING AND STORAGE	
Special Precautions:Do not store, transport with or allow to bromates (See SLPM Std. 17). Avoid material. Avoid generating dust.	
Packaging requirements: Paper bag (minimum 3 ply), or other in container designed for powders and gramaterials.	
Ventilation: Provide ventilation to keep airborne con below exposure limits.	ncentrations
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory protection: Use NIOSH approved respirator with d protection (3M 8710).	ust and mist

Impervious gloves made of: Rubber

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Hand protection:

Skin protection:

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).

CANADA

USA: ACGIH

USA: OSHA

2-METHYLPROPAN-2-OL <u>TWA STEL ANM</u> ND ND 303 455 300 450

D156

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 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:

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact:

Inhalation:

Ingestion:

Carcinogenicity:

Mutagenicity:

Teratogenicity:

Target organs which may be affected: Sensitization:

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.

Mildly irritating.

No effect expected. Prolonged or repeated contact may cause mild irritation.

No effect expected. Prolonged or repeated exposure may cause mild irritation.

No effect expected. Swallowing large amounts may cause illness. LD50 (rats) > 2000 mg/kg.

Not listed by IARC, USA NTP, or USA OSHA.

Not known to cause heritable genetic damage.

Not known to cause birth defects.

None known.

Not known to cause allergic reaction.

DOWELL PRODUCT CODE	D156	Effective Date:	14-Apr	il-2000	<u>-</u>	<u> </u>
Other:	", , , , , , , , , , , , , , , , , , ,	None.	ant ta thug			a di mana sa
12. ECOLOGICAL INFORM	ATION					
Information on product as	a whole:					
Main environmental haza	rds:	None known.				
Degradability:		Partially biode	gradable. 1	10 to 30%	; COE) = 858 mg/g
Acute invertebrates toxici	ty:	Chaetogamma	arus marini	us LC50 (96h) :	= >1000 mg
Growth Inhibition (algae):		Skeletonema	costatum E	C50 (72H	1) = 7	90 mg/l
Information on componen	its:					
CHEMICAL NAME: 2-ME	THYLPROPAN-2-	OL				
Fish Tox - Fresh Water: L	.C50=(7D) 3350 Pl	PM Species: Poecilia	reticulata			
13. DISPOSAL CONSIDERA	TIONS	Maria ha incina				-
Product:		May be inciner landfilled. Mate				
		sanitary landfil				
Container:		Send empty ba	ags to sanif	ary landfi	II. Rer	nder other
		types of contai				
		crushing and s regulations.	anitary lan	atili unies	s proh	ibited by loc
USA EPA RCRA:		None				
14. TRANSPORT INFORMA	TION					
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 Transporta	tion (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
	Not Regulated					
Shipping Name:	Not negulated					
Shipping Name: DOT Label:	Not Negulated					
	Not Negulated					
DOT Label:	Not Regulated					
DOT Label: Canadian Shipments						

Effective Date:

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**

100%0 OF BASE



MATERIAL SAFETY DATA SHEET

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

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DOWELL PRODUCT CODE:	D163	Effective Date:	24-January-2000
1. IDENTIFICATION OF THE SUBST			OMPANY/UNDERTAKING
Identification of the substance or	preparation:		
Microfine Cement D163			
Company/undertaking identificatio	n:	Dowell Safety/Environn	nent - Worldwide
		300 Schlumberger Driv	е
		Sugar Land, Texas 774	78, 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.

DOWELL PRODUCT CO	DE: D163	Effective Date:	24-January-2000		
. FIRE FIGHTING MEAS	SURES				
Extinguishing media:		None needed			
Further Information:		None known.			
Flash point:		Not combustibl	e.		
Method:		Not applicable	Not applicable		
Flammability (explosic	on limits in air):				
Lower:	Not applicable	Upper:	Not applicable		
Autoflammability (auto-ignition temperature):			Not applicable		
Explosive properties (1	hermal decomposition	temperature):	Not determined		
NFPA Rating: Health	1 Flammability 0 Rea	activity 0 Other: None			
Combustion products:	see Section 10.				
See Section 8 for prote See Section 13 for dis HANDLING AND STOR	posal information.	nation.			
Special Precautions:	NAGE	Avoid generatin	on dust		
Packaging requiremen	its:	Paper bag (min	Avoid generating dust. 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.		
EXPOSURE CONTRO	LS/PERSONAL PROT	ECTION			
Respiratory protection:		protection (3M	Use NIOSH approved respirator with dust and mist protection (3M 8710). If dust concentration exceeds t times the exposure limit, wear an approved HEPA		
Eye protection:		It is good practic chemical.	It is good practice to wear goggles when handling any chemical.		
Hand protection:		Impervious glov	es made of: Rubber		
		-			

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m3)

Skin protection:

5

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 ND ND

CANADA	ND	ND
USA: ACGIH	0.1	NE
USA: OSHA	0.1	NE

9. PHYSICAL AND CHEMICAL PROPERTIES

D163

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 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:

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact: Inhalation: Ingestion:

Carcinogenicity:

Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization:

Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Stable. None known Acids Will not occur. No. None. None.

Irritant. May cause pain, redness, discomfort. Irritant; may cause pain, redness, dermatitis.

Irritant; may cause pain and coughing.

Irritant; may cause pain or discomfort to mouth, throat and stomach.

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.

Not known to cause birth defects.

Lung

May cause allergic reaction upon repeated skin exposure. None.

None known.

DOWELL PRODUCT CODE	D163	Effective Date:	24-January-	2000		_
13. DISPOSAL CONSIDER	ATIONS	· · · · · · · · · · · · · · · · · · ·				
Product:	Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.				able	
Container:	Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by loc regulations.					
USA EPA RCRA:		None				
14. TRANSPORT INFORMA	TION					
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 Transporta	tion (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
Shipping Name:	Not Regulated					
DOT Label:						
Canadian Shipments						
Shipping Name:	Not Regulated					
Label:						
Classification:	Par	ckage Group:	C	PIN:	none	

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: EXPOSURE CONTROLS/PERSONAL PROTECTION



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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 pre CemCRETE* Stabilizer D164	eparation:						
Company/undertaking identification:		Dowell Safety/Environme	ent - Worldwide				
		300 Schlumberger Drive					
		Sugar Land, Texas 7747	78, USA				
Corporate Emergency Phone:		USA 1-281-595-3518					
Corporate Non-Emergency Phone:		USA 1-281-285-7873					
2. COMPOSITION/INFORMATION ON	INGREDIEN	TS					
PROPRIETARY MIXTURE CONTAIL							
METAL OXIDE; 60 - 100%							
GLUCOSIDE POLYMER; 0.1 - 1%							
CRYSTALLINE SILICA; CAS 14808	-60-7; 1 - 5%	6					
3. HAZARDS IDENTIFICATION							
Emergency Overview							
Form:		Powder					
Color:		Gray					
Odor:	Odor:		None				
Main environmental hazards:							
None known.							
Main Physical Hazards							
Special Precautions:		None.					
Physical Hazard:		None.					
Main Health Hazards:							
HMIS RATING: Health 0 Flamma	ability 0 Rea	ctivity 0					
This product may contain small ar cause lung cancer. Silica dust ma	mounts of res y cause silico	pirable crystalline silica. Int osis. May cause mechanica	nalation of silica dust may				
See Section 11 for a complete dis							
4. FIRST AID MEASURES							
Eye contact:		Rinse with water.					
Skin contact:		Rinse with water.					
Inhalation:		Remove to fresh air.					
Swallowing:		Rinse mouth with water. S	Seek medical attention if				
Notes:		None.					
DOWELL PRODUCT CODE:	D164	Effective Date:	14-April-2000				
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5. FIRE FIGHTING MEASURE	<u>:S</u>	a na Antonyana and anna a a shina ang a					
Extinguishing media:		None needed					
Further Information:		None known.					
Flash point:		Not combustibl	е.				
Method:		Not applicable					
Flammability (explosion limit	ts in air):						
Lower: No	ot applicable	Upper:	Not applicable				
Autoflammability (auto-ignit	ion temperature):		Not applicable				
Explosive properties (therm	al decomposition t	emperature):	Not determined				
NFPA Rating: Health 0 Fla	mmability 0 Read	tivity 0 Other: None					
Combustion products: see S	Section 10.						
6. ACCIDENTAL RELEASE M	EASURES						
After spillage/leakage:		Scoop into cont water.	tainers. Flush residual with plenty of				
See Section 8 for protective	equipment inform	ation.					
See Section 13 for disposal	information.						
7. HANDLING AND STORAGE	=						
Special Precautions:	2	No special prec	autions required.				
Packaging requirements:			imum 3 ply), or other industrial				
i donaging roquiromonio.			ned for powders and granulated				
Ventilation:		Provide ventilat below exposure	ion to keep airborne concentrations limits.				
3. EXPOSURE CONTROLS/PI	ERSONAL PROTE	CTION					
Respiratory protection:		Use NIOSH app protection (3M 8	proved respirator with dust and mist 8710). If dust concentration exceeds 5 sure limit, wear an approved HEPA				
Eye protection:		Chemical splas	h goggles.				
Hand protection:		Impervious glov	ves.				
Skin protection:		Clean, body-covering clothing.					

Exposure Limit Guidelines (mg/m3)

6.1

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

Effective Date:

9. PHYSICAL AND CHEMICAL PROPERTIES

D164

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 None 8-9 (68°F) (at 20 g/l) Not applicable Not applicable 2.4 (68°F) Not determined Insoluble Not applicable Not applicable Not applicable Inert

10. STABILITY AND REACTIVITY

Stability: Conditions to avoid: Materials to avoid: Hazardous Polymerization: Dust explosion hazard (solids): Special hazards: Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact:

Inhalation: Ingestion:

Carcinogenicity:

Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization: Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Stable. None known None known Will not occur. No. None. None.

May cause mechanical irritation.

No effect expected. Prolonged or repeated contact may cause mild irritation.

Repeated exposure to silica dust may cause silicosis. No effect expected. Swallowing large amounts may cause illness.

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.

Not known to cause birth defects.

Not known to cause allergic reaction. None.

None known.

DOWELL PRODUCT CODE	: D164	Effective Date:	14-Apri	I-2000		
13. DISPOSAL CONSIDER	ATIONS					
Product:		Dispose of by s method in acco	-			•
Container:		Send empty ba types of contain crushing and sa regulations.	ners unuse	able by p	uncturi	ing or
USA EPA RCRA:		None.				
14. TRANSPORT INFORM	ATION					
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 Transporta	ation (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
Shipping Name:	Not Regulated					
DOT Label:	none	1				
Canadian Shipments						
Shipping Name:	Not Regulated					
Label:						
Classification:	Pac	ckage Group:		PIN:	none	9
	•					

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:

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.

Schlumberger

B. 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:	D800	Effective Date:	24-November-1999
1. IDENTIFICATION OF THE SUBSTAN	ICE/PREPAR	ATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or pre MID-TEMP RETARDER-S D800	paration:		
Company/undertaking identification:		Dowell Safety/Environm 300 Schlumberger Drive Sugar Land, Texas 774	e
Corporate Emergency Phone: Corporate Non-Emergency Phone:		USA 1-281-595-3518 USA 1-281-285-7873	
2. COMPOSITION/INFORMATION ON I	NGREDIENTS	2	
PROPRIETARY MIXTURE CONTAIN AROMATIC POLYMER DERIVATIVE			
3. HAZARDS IDENTIFICATION			
Emergency Overview			
Form:		Powder	
Color:		Dark brown	
Odor:		Mild	
Main environmental hazards:			
None known.	ň		
Main Physical Hazards			
Special Precautions:		None.	
Physical Hazard:		Dust explode	
Main Health Hazards:			· · ·
HMIS RATING: Health 2 Flamma	bility 3 React	ivity 0	
May cause allergic reaction upon respiratory tract irritation. May ca	use skin irritat	ion.	e irritation. May cause
See Section 11 for a complete disc	ussion of hea	lth hazards.	
4. FIRST AID MEASURES			
Eye contact:		Immediately flush eyes wheeling eyelids open. Se	with water for 15 minutes while eek medical attention.
Skin contact:		Immediately remove cor Wash with soap and wat medical attention.	ntaminated clothes and shoes. ter for 15 minutes. Seek
Inhalation:		Remove to fresh air. See persists or you feel unwe	ek medical attention if irritation ell.
Swallowing:		If several grams are swa (preferred) or water and	llowed, give 2 glasses of milk seek medical advice.
Notes:		None.	

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DOWELL PRODUCT CODE:	D800	Effective Date:	24-November-1999	
5. FIRE FIGHTING MEASURES	 Models constant for 			
Extinguishing media:		Water Fog, Ald	ohol 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 ha		
Flash point:		> 212ºF		
Method:		Not determined		
Flammability (explosion limits in	air):			
Lower: Not de	termined	Upper:	Not determined	
Autoflammability (auto-ignition to	emperature):		Not determined	
Explosive properties (thermal de	ecomposition	temperature):	Not determined	
NFPA Rating: Health 2 Flamm	ability 3 Rea	ctivity 0 Other: None		
Combustion products: see Secti	on 10.			
6. ACCIDENTAL RELEASE MEAS	_			

After spillage/leakage:

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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: Packaging requirements: Avoid generating dust.

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

Provide ventilation to keep airborne concentrations below exposure limits.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:

Eye protection: Hand protection: Skin protection:

Ventilation:

Use NIOSH approved respirator with dust and mist protection (3M 8710).

Chemical splash goggles.

Impervious gloves.

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
Color:	Dark brown
Odor:	Mild
pH value:	9 (68ºF) (at 50 g/l)
Boiling point:	Not applicable
Pour point:	Not determined
Vapor pressure:	Not applicable

DOWELL PRODUCT CODE:	D800	Effective Date:	24-November-1999
Relative density (specific gravity	/):	1.26 (68ºF)	
Bulk Density (solids):		649.6 kg/m3	
Solubility in water:		Soluble 68°F	
Viscosity:		Not applicable	
Relative Vapor Density (air=1):		Not applicable	
% Volatile:		<10	
Nature		Carbohyd.	
10. STABILITY AND REACTIVITY			
Stability:		Stable.	
Conditions to avoid:		None known	

Oxidizers

Yes.

None.

released.

Will not occur.

Conditions to avoid: Materials to avoid: Hazardous Polymerization: Dust explosion hazard (solids): Special hazards:

Hazardous decomposition products:

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact: Inhalation: Ingestion:

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Carcinogenicity: Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization:

Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability: Acute invertebrates toxicity:

13. DISPOSAL CONSIDERATIONS

Product:

Container:

Irritant; may cause pain, redness, dermatitis. Irritant; may cause pain and coughing. Irritant; may cause pain or discomfort to mouth, throat and stomach.

When heated strongly or burned, oxides of carbon, sulfur oxides and harmful organic chemical fumes are

Not listed by IARC, USA NTP, or USA OSHA.

Irritant. May cause pain, redness, discomfort.

Not known to cause heritable genetic damage.

Not known to cause birth defects.

None known.

May cause allergic reaction upon repeated skin exposure. None.

None known. Not determined Acartia Tonsa LC50 (48h) = 237 mg/l

Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or landfilling.

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.

DOWELL PRODUCT CODE:	D800	Effective Date:	24-Nov	vember-19	99	
USA EPA RCRA:	na na an a	None.				
14. TRANSPORT INFORMA	TION					
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 Transporta	tion (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
Shipping Name:	Not Regulated					
DOT Label:						
Canadian Shipments						
Shipping Name: Label:	Not Regulated					
Classification:	Pac	ckage Group:		PIN:	non	e .

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% 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 SUBSTAN	CE/PREP/	ARATION AND OF THE CO	OMPANY/UNDERTAKING
Identification of the substance or prep CEMENT CLASS G D907	paration:		
Company/undertaking identification:		Dowell Safety/Environm	ent - Worldwide
		300 Schlumberger Drive	9
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone:		USA 1-281-285-7873	
2. COMPOSITION/INFORMATION ON IN	IGREDIEN	ITS	

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 Llookh Lloverder	

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:	D907	Effective Date:	24-November-1999		
5. FIRE FIGHTING MEASURES	a tanina na ka	n an gang an Manang an Ing Kang Ang Kang Ang Kang Ang Kang Ang Kang Ang Kang Kang Kang Kang Kang Kang Kang Ka	•		
Extinguishing media:		None needed			
Further Information:		None known.			
Flash point:		Not combustible	e.		
Method:		Not applicable			
Flammability (explosion limits in	n air):				
Lower: Not a	pplicable	Upper:	Not applicable		
Autoflammability (auto-ignition	temperature):		Not applicable		
Explosive properties (thermal d	ecomposition	temperature):	Not determined		
NFPA Rating: Health 2 Flamm	nability 0 Rea	activity 0 Other: None			
Combustion products: see Sect	tion 10.				
6. ACCIDENTAL RELEASE MEA	SURES				
After spillage/leakage:		Scoop into cont water.	ainers. Flush residual with plenty of		
See Section 8 for protective eq	uipment infor	mation.			
See Section 13 for disposal info	ormation.				
7. HANDLING AND STORAGE					
Special Precautions:		Keep material d	lry.		
Packaging requirements:			imum 3 ply), or other industrial ned for powders and granulated		
Ventilation:		Provide ventilati	ion to keep airborne concentrations limits.		
8. EXPOSURE CONTROLS/PERS	SONAL PROT	ECTION			
Respiratory protection:		Use NIOSH app protection (3M 8	proved respirator with dust and mist 3710).		
Eye protection:		Chemical splash	n goggles.		
Hand protection:		Impervious glov	es made of: Rubber		
Skin protection:		Clean, body-cov	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

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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:	en man in e e e e	Miscible with w	
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):	No.
Special hazards:	None.
Hazardous decomposition products:	None.

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact: Inhalation: Ingestion:

Carcinogenicity: Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization:

Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability: Fish Toxicity:

13. DISPOSAL CONSIDERATIONS

Product:

Container:

USA EPA RCRA:

Irritant. May cause pain, redness, discomfort. Irritant; may cause pain, redness, dermatitis. Irritant; may cause pain and coughing. Irritant; may cause pain or discomfort to mouth, throat and stomach. Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage: Not known to cause birth defects. None known. May cause allergic reaction upon repeated skin 14. 2

exposure. None.

None known. Not applicable Low toxicity to fish.

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.

None

DOWELL PRODUCT CODE:	D907	Effective Date:	24-Nov	ember-19	99	
14. TRANSPORT INFORMAT	<u>FION</u>					
ICC Tariff Classification	Cement					
ICC Item Number:	42130	ICC Class:	50	LTL	35	TL
CERCLA RQ:	Not established.					
Department of Transportal	tion (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
Shipping Name:	Not Regulated					
DOT Label:						
Canadian Shipments						
Shipping Name:	Not Regulated					
Label:						
Classification:	Pad	ckage Group:		PIN:	non	е

15. REGULATORY INFORMATION

Notification/restrictions status:

USA:

8 8

3

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

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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% OF BASE



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 SUBS	TANCE/PREP	ARATION AND OF THE C	OMPANY/UNDERTAKING
Identification of the substance of CEMENT CLASS H D909	r preparation:		
Company/undertaking identificati	on:	Dowell Safety/Environn	nent - Worldwide
		300 Schlumberger Driv	e
		Sugar Land, Texas 774	78, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phon	e:	USA 1-281-285-7873	
2. COMPOSITION/INFORMATION			
PORTLAND CEMENT; CAS 659	197-10-1, 60-10	JU %	
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 Fla	mmability 0 Rea	activity 0	
May cause allergic reaction up respiratory tract irritation. Ma			e irritation. May cause
See Section 11 for a complete	-		

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	<u>S</u>				
Extinguishing media:		None needed			
Further Information:		None known.			
Flash point:		Not combustible			
Method:		Not applicable			
Flammability (explosion limit	s in air):				
Lower: No	t applicable	Upper:	Not applicable		
Autoflammability (auto-ignitic	on temperature):	:	Not applicable		
Explosive properties (therma	l decomposition	i temperature):	Not determined		
NFPA Rating: Health 2 Flar	nmability 0 Rea	activity 0 Other: None			
Combustion products: see S	ection 10.				
6. ACCIDENTAL RELEASE ME	ASURES				
After spillage/leakage:		Scoop into conta water.	iners. Flush residual with plenty of		
See Section 8 for protective	equipment infor	mation.			
See Section 13 for disposal i	nformation.				
7. HANDLING AND STORAGE					
Special Precautions:		Keep material dr	у.		
Packaging requirements:			num 3 ply), or other industrial ed for powders and granulated		
Ventilation:		Provide ventilation below exposure	on to keep airborne concentrations limits.		
8. EXPOSURE CONTROLS/PE	RSONAL PROT	ECTION			
Respiratory protection:		Use NIOSH appr protection (3M 83	oved respirator with dust and mist 710).		
Eye protection:		Chemical splash	goggles.		
Hand protection:		Impervious glove	s made of: Rubber		
Skin protection:		Clean, body-cove	ering clothing.		
Exposure Limit Guidelines (m	ng/m3)				
No components have establis	shed exposure l	imits.			
Dust particles: total = 10 mg/	m3, respirable fi	raction = 5 mg/m3.			
9. PHYSICAL AND CHEMICAL	PROPERTIES				
Form:		Powder			
Color:		Gray			
		-			

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 w	
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):	No.
Special hazards:	None.
Hazardous decomposition products:	None.

11. TOXICOLOGICAL INFORMATION

Eye contact: Skin contact: Inhalation: ingestion:

Carcinogenicity: Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization:

Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability: Fish Toxicity:

13. DISPOSAL CONSIDERATIONS

Product:

Container:

USA EPA RCRA:

Irritant. May cause pain, redness, discomfort. Irritant; may cause pain, redness, dermatitis. Irritant; may cause pain and coughing. Irritant; may cause pain or discomfort to mouth, throat and stomach. Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage. Not known to cause birth defects. None known. May cause allergic reaction upon repeated skin exposure. None.

None known. Not applicable Low toxicity to fish.

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.

None

DOWELL PRODUCT CODE:	D909	Effective Date:	24-Nov	ember-19	99	
14. TRANSPORT INFORMA	<u>FION</u>				•	
ICC Tariff Classification	Cement					
ICC Item Number:	42130	ICC Class:	50	LTL	35	TL
CERCLA RQ:	Not established.					
Department of Transporta	lion (DOT)					
Designation:	Not Regulated					
Hazard Class:	Not Regulated					
Shipping Name:	Not Regulated					
DOT Label:						
Canadian Shipments						
Shipping Name:	Not Regulated					
Label:						
Classification:	Pac	ckage Group:		PIN:	non	е

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.

Sec.

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.

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MATERIAL SAFETY DATA SHEET

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

DOWELL PRODUCT CODE:	S001	Effective Date:	10-February-2000
1. IDENTIFICATION OF THE SUBSTA			
Identification of the substance or pro 77% CALCIUM CHLORIDE S1			
Company/undertaking identification:		Dowell Safety/Environn	
		300 Schlumberger Driv	
		Sugar Land, Texas 774	178, USA
Corporate Emergency Phone:		USA 1-281-595-3518	
Corporate Non-Emergency Phone:		USA 1-281-285-7873	
2. COMPOSITION/INFORMATION ON	INGREDIEN	TS	
CALCIUM CHLORIDE; CAS 10043-	-52-4; 60-10	0%	
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 Flamm	ability 0 Rea	activity 1	
Harmful if swallowed. Causes eye irritation.	e irritation. M	ay cause respiratory tract i	rritation. May cause skin
See Section 11 for a complete dis	scussion of h	ealth hazards.	
4. FIRST AID MEASURES			
Eye contact:		Immediately flush eyes holding eyelids open. So	with water for 15 minutes while eek medical attention.
Skin contact:		Remove contaminated on thoroughly with soap an attention if irritation occu	clothes and shoes. Wash d water. Seek medical urs.
Inhalation:		Remove to fresh air.	
Swallowing:		ipecac (preferred), or by	allowed, induce vomiting with giving water and sticking vomiting give milk (preferred) ysician.

Notes:

None.

DOWELL PRODUCT CODE: \$001	Effective Date:	10-February-2000
5. FIRE FIGHTING MEASURES	n georgen in de la ser wreite daarde in de	anan na tanàn amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana a
Extinguishing media:	None needed	
Further Information:	None known.	
Flash point:	Not combustible	L.
Method:	Not applicable	
Flammability (explosion limits in air):		
Lower: Not applicable	Upper:	Not applicable
Autoflammability (auto-ignition temperature):		Not applicable
Explosive properties (thermal decomposition ter	nperature):	Not determined
NFPA Rating: Health 2 Flammability 0 Reactive	vity 1 Other: None	
Combustion products: see Section 10.		
. ACCIDENTAL RELEASE MEASURES		
After spillage/leakage:	Scoop into conta water.	ainers. Flush residual with plenty c
See Section 8 for protective equipment informat	ion.	
See Section 13 for disposal information.		
. HANDLING AND STORAGE		
Special Precautions:	Keep material dr	у.
Packaging requirements:	Bag with moistur	e barrier.
Ventilation:	Provide ventilation below exposure	on to keep airborne concentrations limits.
. EXPOSURE CONTROLS/PERSONAL PROTEC	TION	
Respiratory protection:		eeded. If dust or mist is generated oved respirator with dust and mist 710).
Eye protection:	Chemical splash	goggles.
Hand protection:	Impervious glove	es made of: Rubber
Skin protection:		ering clothing. For spills and so wear boots and impervious suit
Exposure Limit Guidelines (mg/m3)		
No components have established exposure limit	S.	
The components have coublished expectate innit	0.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules
Color:	White
Odor:	None
pH value:	Not determined
Boiling point:	Not applicable
Pour point:	Not determined
Vapor pressure:	0.13 kPa (68⁰F)
Relative density (specific gravity):	2.2 (68°F)
Bulk Density (solids):	800 kg/m3

DOWELL PRODUCT CODE:	S001	Effective Date:	10-February-2000
Solubility in water:		Soluble 68°F	
Viscosity:		Not applicable	
Relative Vapor Density (air=1):		Not applicable	
% Volatile:		< 18	
Nature		Salt	

10. STABILITY AND REACTIVITY

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:	Will not occur.
Dust explosion hazard (solids):	Not applicable.
Special hazards:	None.
Hazardous decomposition products:	None.

11. TOXICOLOGICAL INFORMATION

Eye contact:

Skin contact:

Inhalation: Ingestion:

Carcinogenicity: Mutagenicity: Teratogenicity: Target organs which may be affected: Sensitization: Other:

12. ECOLOGICAL INFORMATION

Information on product as a whole: Main environmental hazards: Degradability: Fish Toxicity:

> Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.

Severe irritant. Causes pain and redness. Prolonged

Irritant: may cause pain, redness, dermatitis, LD50

Harmful if swallowed; large amounts may cause illness. LD50 = 1100 mg/kg. Irritant; may cause pain

or discomfort to mouth, throat and stomach.

Not listed by IARC, USA NTP, or USA OSHA. Not known to cause heritable genetic damage.

or repeated contact may cause mild burn.

Irritant; may cause pain and coughing.

Not known to cause birth defects.

Not known to cause allergic reaction.

(rabbits) > 5000 mg/kg.

None known.

None known. Not applicable

Low toxicity to fish.

None.

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations. None.

13. DISPOSAL CONSIDERATIONS

Product:

Container:

USA EPA RCRA:

Page 3 of 4

Ċ,	DOWELL PRODUCT CODE:	S001	Effective Date:	10-Feb	ruary-200	0
	14. TRANSPORT INFORMAT	<u>FION</u>				
	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 Transportat	ion (DOT)				
	Designation:	Not Regulated				
	Hazard Class:	Not Regulated				
	Shipping Name:	Not Regulated				
	DOT Label:					
	Canadian Shipments					
	Shipping Name:	Not Regulated				
	Label:					
	Classification:	Pa	ckage 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 IState of New Mexico1625 N. French Dr., Hobbs, NM 88240Energy Minerals and Natural ResourceDistrict IIDistrict III1000 Rio Brazos Road, Aztec, NM 87410Oil Conservation DivisionDistrict IV1220 S. St. Francis Dr., Santa Fe, NM 87505Santa Fe, NM 87505Santa Fe, NM 87505	MAR 2003 Plus 1 Copy to Appropriate District Office
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTES
1. RCRA Exempt: 🗌 Non-Exempt: 🖾 Verbal Approval Received: Yes 🗌 No 🖾	 Generation
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-
 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 All transporters must certify the wastes delivered are only those consigned for trans 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. 	necessary chemical analysis to PROVE the classified hazardous by listing or testing will be sport.
Estimated Volume <u>18 cy</u> Known Volume (to be entered by the operator at the end of	f the haul) cy
	Administrative Assistant DATE: 03/06/03
TYPE OR PRINT NAME: Landrea Jackson TELEPHONE NO: (505) 632-0615	5
(This space for State Use) Ste New Fich gone for APPROVED BY: This Environte for the form TITLE: APPROVED BY: Guid Guid Guid TITLE:	
APPROVED BY: Jun Gui Gui Gui China TITLE:	DATE:

Autrice I - (505) 393-6161 (O. Box 1980 obbs, NM 88241-1980 intrice II - (505) 748-1283 1 S. First tesia, NM 88210 ¹ trice III - (505) 334-6178 ¹ Rio Brazos Road c, NM 87410 intrice IV - (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT	n MAR 0 4 2002 Submit Origina Environmental Bureau Oil Conservation Division Env. JN: 02008-018
1. RCRA Exempt: Non-Exempt: X	4. Generator THRIFTWAY Corp.
Verbal Approval Received: Yes No	5. Originating Site THEIFTWAY REFINITY
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENUIRATEL
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 Field Nac
BRIEF DESCRIPTION OF MATERIAL: Sludge & water at crade Truce Sum Den i ed to conta Fe Den i to conta Fe Subjectient Approved Approved Basedon is Dave effer	FED 26 27 30 70 10
Estimated Volume ZO bbl cy Known Volume (to be entered by the oper SIGNATURE: Barla The Brown TITLE: Landfarm Ma Waste Management FacilityAuthorized Agent	ator at the end of the haul) cy
(This space for State Use) APPROVED BY: Menty Cent TITLE: Environment APPROVED BY: Mintyn Bills. TITLE: Environment	1 Engr DATE: 6/25/02 6.1 beologist DATE: 6/11/02

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District I - (505) 393-6161 New Mexico	Form C-13
Hobbin NM 88241-1980 Energy Minerals and Natural Resource	£
District II - (505) 748-1283 811 S. First Oil Conservation Divisio	-
Artesia, NM 88210 2040 South Pacheco Street 	Submit Origin Plus 1 Cc
Rio Brazos Road (505) 827-7131	to appropria
مــــد, NM 87410 <u>District IV</u> - (505) 827-7131	Env. JN: <u>62008</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator THRIFTWAY Corp.
Verbal Approval Received: Yes 🔲 No 🖂	5. Originating Site REFINARY
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENUIROTECH
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 Rond 5500 Bloom field Nay
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be acco	ompanied by a certification of waste from the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be according PROVE the material is not-hazardous and the Generator's certification	mpanied by necessary chemical analysis to
listing or testing will be approved.	service indexe of control hazaroous by
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Sludge & water at crude Trule Sun	чрѕ
2	
	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	
20111	
Estimated Volume Zo cy Known Volume (to be entered by the oper	ator at the end of the haul) cy
SIGNATURE: Harlaste Brown TITLE: Landfarm Ma	nager DATE: 2-28-02
Waste Management FacilityAuthorized Agent	
TYPE OR PRINT NAME: Harlan M. Brown TELE	PHONE NO
(This space for State Use)	
APPROVED BY:	DATE:

· A	PPROVED BY:		D
- 1 A	FPROVED BY:		DATE
•	·····	مراجع کا اور برینشان ان مربوع کا اور شده میزان و منطق می اور می مربوع می دود. در مربوع می مربوع می دود در می د	

BIOTECH REMEDIATION

w/ TELP.



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEG, NEW MEXICO B7410 (805) 334-8136 Fax (805)214-8170

24

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Thriftway W. 501 Airport Dr. Scite ND Farmington Nu 8740!	2. Destination Name: Envirotech Soll Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Size/(name): ThisFill Blomfield F	Location of the Weste (Street address &/or ULSTR):
Attach list of originating sites as appropriate 4. Source and Description of Waste Coude tank Sumps	
I, TERRY Griffin (Print Name)	representative for:
BIOTECH REMEDIATION	do hereby certify that, ry 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
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information BCBA Hazardous Waste Analysis	tion is attached (check appropriate items): Other (description):

____ Chain of Custody

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 Signaty redre Title: 27-02 Date:

· .*

BIOTECH REMEDIATION

». []	en Mir	VI From PAVA
io.	CAL / TIME	Co.
lept.	•	Phone #
BX # 1057	TUS	Fax#



501 Airport Drive - Suite 104

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 abovereferenced 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,

Τø lin 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/eb

Christine M. Walters Laboratory Coordinator / Environmental Scientist

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Envirotech Labs

PRACTICAL SOLUTIONS FOR A DETTIER TOMORROW.

SUSPECTED HAZARDOUS WASTE ANALYSIS

······································			
Client:	Thriftway	Project #:	02008-001
Sample ID:	SM-2 + SM-1	Date Reported:	02-19-02
Lab ID#:	22041	Date Sampled:	02-14-02
Sample Matrix:	Water	Date Received:	02-14-02
Preservative:	Cool	Date Analyzed:	02-15-02
Condition:	Cool and Intact	Chain of Custody:	8919
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 6.84	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criter	ria		
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 s	ections 261.21 - 261.23, July 1, 1992	

<u>Analyst</u>

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Envirotech Labs

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PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

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:	Ceol	Date Analyzed:	02-19-02
Condition:	Cool & Intact	Analysis Requested:	TCLP
		Detection	Regulator
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chlorido	ND	0.0001	0.2
Vinyl Chloride	ND	0.0001	
1,1-Dichloroethene			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
		0.0004	0 5
1,2-Dichloroethane	ND	0.0001	0.5
1,2-Dichloroethane Trichloroethene	ND ND	0.0001 0.0003	0.5
-			
Trichloroethene	ND	0.0003	0.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery
		Fluorobenzene	100%
•		1,4-difluorobenzene	100%
		4-bromochlorobenzene	100%
References:	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:

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CHICAL SOLUTIONS FOR A Elemistric MOBROW

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
Pentachiorophenol	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%

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

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

Parameter	Concentration	Det. Limit (mg/l.)	Regulatory Limit
Condition:	Cool and Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	02-20-02
Sample Matrix:	Water	Date Extracted:	N/A
Chain of Custody:	8919	Date Received:	02-14-02
Laboratory Number:	22041	Date Sampled:	02-14-02
Sample ID:	SM-2 + SM-1	Date Reported:	02-20-02
Client:	Thriftway	Project #:	02008-001

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, Method 3510, Separatory Funnel Liquid-Liquid Extraction, Method 8090, Nitroaromatics and Cyclic Ketones, SW-846		SW-846, USEPA, July 1992.
		d on 40 CFR part 261 Subpart C sec	

Comments: Hwy 550, NM.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORHOW

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

	Concentration	Det. Limit	Regulatory Level
Parameter	(mg/L)	(mg/L)	(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.

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QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	ΝΙ/Δ
Client.	QAIQC	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-8	46, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA, S	Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Sep	ot. 1994.
Note:	Regulatory Limits baser	I on 40 CFR part 261 Subpart C section 2	261 24 July 1 1992

Comments:

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PRACTICAL SOLUTIONS FOR A BETMER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-19-02
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
		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:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	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:

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

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	02-19-02
Laboratory Number:	22037			Date Sample	ed:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP	·		Date Analyze	ed:	02-19-02
Condition:	N/A			Date Extracte	ed:	02-14-02
			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	•
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)	0.0087	0.050	0.0577	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	0.0018	0.050	0.0513	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
	ND	0.050	0.0495	0.0003		
Chlorobenzene					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:

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EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

> N/A 02-20-02 N/A

		Laboratory Blan
Client:	QA/QC	Project #:
Sample ID:	Laboratory Blank	Date Reported:
Laboratory Number:	02-20-TCA	Date Sampled:
Sample Matrix:	2-Propanol	Date Received:

Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-20-02
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 samples 22037 - 22039 and 22041.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS **Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-20-02
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.

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Surrogate Rec	overies:	Parameter	Percent Recovery	
		2-Fluorophenol 2,4,6-Tribromophenol	98% 99%	
References:	Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Eva Waste, SW-846, USEPA, July 1992.			
		0, Separatory Funnel Liquid-Liquid Extraction 346, USEPA, July 1992.	, Test Methods for Evaluating Solid	
	Method 8040), Phenols, Test Methods for Evaluating Solid	Waste, SW-846, USEPA, Sept. 1986	
Note:	Regulatory L	egulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.		
Comments:	QA/QC for	A/QC for samples 22037 - 22039 and 22041.		

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PRACTICAL SOLUTIONS FOR A BETTLER TOMORROW

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.

		8040 Compounds	30.0%
W	ethod 1311, Toxicity Ch aste, SW-846, USEPA,	naracteristic Leaching Procedure Test M July 1992.	lethods for Evaluating Solid
	ethod 3510, Separatory aste, SW-846, USEPA	Funnel Liquid-Liquid Extraction, Test I July 1992.	Methods for Evaluating Solid
Me	ethod 8040, Phenols, T	est Methods for Evaluating Solid Waste	e, SW-846, USEPA, Sept. 1986.
Note: Re	egulatory Limits based	on 40 CFR part 261 subpart C section 2	261.24, July 1, 1992.
Comments: Q	A/QC for samples	22037 - 22039 and 22041.	

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

1			
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, S	6W-846, USEPA, July 1992.
	· ·	ory Funnel Liquid-Liquid Extraction, S matics and Cyclic Ketones, SW-846,	
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.
Comments:	QA/QC for sample	s 22037 - 22039 and 22041.	

Ľ. Analyst

Review Review

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-20-02
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

	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	100%	
References:	Method 3510, Separate	oxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. eparatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. litroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.		
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.	
			/	

Comments:

QA/QC for samples 22037 - 22039 and 22041.

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Mistin Malters Review

PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW

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

0.020 0.020 0.020 0.020

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:	Date Received:	
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

Hexachloroethane	ND	ND	0.0%
Nitrobenzene	0.102	0.101	0.0%
Hexachlorobutadiene	ND	ND	0.0%
2,4-Dinitrotoluene	0.034	0.034	0.0%
HexachloroBenzene	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Maximum Difference
		8090 Compounds	30%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure,	SW-846, USEPA, July 1992.
	Method 3510, Separate	bry Funnel Liquid-Liquid Extraction,	SW-846, USEPA, July 1992.
	Method 8090, Nitroaror	matics and Cyclic Ketones, SW-846	, USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C se	ection 261.24, July 1, 1992.

Comments:

QA/QC for samples 22037 - 22039 and 22041.

~ P. Cefuce

Austin mulaters

ENVIROTECI

ACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:		QA/QC		Project #	:		N/A
Sample ID:		02-19-TCN	I QA/QC	Date Rep	orted:		02-19-02
Laboratory Number:		22037		Date San	npled:		N/A
Sample Matrix:		TCLP Extra	act	Date Rec	eived:		N/A
Analysis Requested:		TCLP Meta	als	Date Ana	lyzed:		02-19-02
Condition:		N/A		Date Extr	acted:		N/A
Disul P Durlingto	Instrument	Method	Detectio	n Sample	D	N/	
Blank & Duplicate Conc. (mg/L)	Blank	Blank	Limit	in Sample	Duplicate	e % 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	and the second	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.

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

> 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.

ena Analyst

Mistin Malles Review

Sample Sample Date Time	Project Location		
Sample Sample Date Time	HUJSSO ZM	ANALYSIS / PARAMETERS	ETERS
Sample Sample Date Time	0% - 00 / of ainers	dit	Remarks
	Sample No Conta Matrix	1 % 1 %	
2M-2+241-11/14/12/1340 220	22041 H20 4	7	
-			
Relingetighed by: (Signature)	Date	Signature)	
Relinquished by: (Signature)	A 14 1 C Beceived by: (Signature)	Loute Signature)	01:07 V:10
Relinquished by: (Signature)	Received by: (Signature)	Signature)	
	EDVIROTECH INC		Sample Receipt
			Y N N/A
	5796 U.S. Highway 64 Farmington, New Mexico 87401	4 87401	Received Intact
	(505) 632-0615	<u>.</u>	Cool - Ice/Blue Ice

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ENVIROTECHINC.

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.

Halon The 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

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Thank you for your assistance. If you need further information, please contact me at 505-327-4965.

Respectfully,

lu Terry Griffin Project Administrator

hmb/TG



GARY E. JOHNSON GOVERNOR

State of New Mexico ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505-6303 Telephone (505) 428-2500 Fax (505) 428-2567 www.nmeny.state.nm.us



3 2002

RECEIVED JUN

ARIA

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

Lany Jackson [ljackson@envirotech-inc.com] From: Friday, January 31, 2003 8:48 AM Sent: Kieling, Martyne To: **Denny Foust** Cc: 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 а > C-138 on this waste steam. > > > > Martyne J. Kieling > Martyne J. Kieling > Environmental Geologist > >

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estrict I - (505) 393-6161 D. Box 1980 bbs, NM 88241-1980 estrict II - (505) 748-1283 1 S. First lesia, NM 88210 Trict III - (505) 334-6178 D Rio Brazos Road c, NM 87410 estrict IV - (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT	n Submit Original Plus I Čopy to appropriate District Office 98059-025
	Universal
1. RCRA Exempt: 🔲 Non-Exempt: 🔯	4. Generator Compleadion
Verbal Approval Received: Yes 🗋 No 🕅	5. Originating Site Munoz # 12
2. Management Facility Destination Facility LF # >	6. Transporter Envisotech
3. Address of Facility Operator 5796 us thug le 4 Jannington, NM 87401	8. State NM
7. Location of Material (Street Address or ULSTR) "D" Sec11, T 30n,	
 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 accordenerator. 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. BRIEF DESCRIPTION OF MATERIAL: Compressor of new ou contaminated sould study of the second study. 	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by d for transport.
CWS+MSDS attached.	ELE CONTRACTION.
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) cy
SIGNATURE: Waste Mahagement Facility Authorized Agent TITLE: PULSIAL TYPE OR PRINT NAME: Morris D. Toung TEL	EPHONE NO. (505) 632-0615
APPROVED BY: Martin Approv	2/ Engr DATE: 2/18/03 mm/2/600/515/ DATE: 2/21/03



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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 97410 (505) 334-6170 Fax (505)334-6170

98059-25

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

	2. Destination Name:
1. Generator Name and Address:	
Universal Compression	Envirotech Soil Remediation Facility Landfarm #2
3440 Morningstar Drive Farmington, New Mexico 87401	Hilltop, New Mexico
Farmington, New Mexico 87401	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
MUNOZ # 1A	"D" SEC IT TOWN 030N
	RANGE ODEW
Attach list of originating sites as appropriate	· · · · · · · · · · · · · · · · · · ·
4. Source and Description of Waste	1 1 K sila fail est
4. Source and Description of Waste Compressor oil + New oil out of du	ay fank soflat (ontomated Doi (
Right side of stid Near Rediator	
	· · · · · · · · · · · · · · · · · · ·
1,	representative for:
(Print Name)	
	do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described v	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	n-exempt non-hazardous waste defined above.
	ing is attacked (shade an arrive it area).
For NON-EXEMPT waste the following documentat	
X MSDS Information RCRA Hazardous Waste Analysis	Other (description):
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):	

Title: _Symme

Date: 8-28-02

Phil Dugel





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.

G	ra	d	e
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30, 40, <u>(15W-40</u>

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

Components Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	

If oil mist is generated, exposure limits 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 15Ŵ-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.

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Spill Clean Up

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 NIOSHapproved 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

IT OIL MIST IS Generated,	cyboon c timite	appiy.
PEL (OSHA)	5 mg/m3, 8 Hr.	TWA
TLV (ACGIĤ)	5 mg/m3, 8 Hr.	TWA, STEL 10 mg/m3

EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

AEL * (DuPont) 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 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 Vapor Pressure Vapor Density % Volatiles Evaporation Rate Solubility in Water Odor Form Color Specific Gravity Density

700-1100 F (371-593 C) Nil >1 (Air = 1) Nil Insoluble Petroleum hydrocarbon (mild) Liquid Amber to Brown 0.88 @ 60 F (16 C) 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 Flammability Reactivity	1 1 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 Address > Telephone	S : MSDS Coordinator : Conoco Inc. : PO Box 2197 : Houston, TX 77252 : 1-281-293-5550
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Indicates updated section.

End of MSDS

District I - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 St1 S. First Artesia, NM 88210 Product III - (505) 334-6178 Product III - (505) 334-6178 Product III - (505) 334-6178 Product III - (505) 827-7131 District IV - (505) 827-7131 New Mexico Coll Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	▲
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Compression 5. Originating Site S 1970
2 Management Escility Destination Envirolect Soil Rimediation	
2 Address of Easility Operator 5796 US Huly 64	6. Transporter Enverotell 8. State n m
7. Location of Material (Street Address or ULSTR) "F" Such T29N,	
9. <u>Circle One</u> :	
 A. All requests for approval to accept ollifield exempt wastes will be accelerator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accelerator. B. All requests for approval to accept non-exempt wastes must be accelerator. All requests for approval to accept non-exempt wastes must be accelerator. All requests for approval to accept non-exempt wastes must be accelerator. All requests for approval to accept non-exempt wastes must be accelerator. B. All requests for approval to accept non-exempt wastes must be accelerator. All requests for approval to accept non-exempt wastes must be accelerator. All transporters must certify the wastes delivered are only those consigned. BRIEF DESCRIPTION OF MATERIAL: Compredeen oil Contaminated soil reput tabing the plug from a long run of CWS4 MSDS attached. Wew 	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by d for transport. Uting from Someone
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) cy
SIGNATURE: <u>Waste Management Facility Authorized Agent</u> TITLE: <u>President</u> TYPE OR PRINT NAME: <u>Morris D. Joung</u> TEL	EPHONE NO. (505) 632-0615
(This space for State Use) APPROVED BY: Demy Feust TITLE: Enviro	
APPROVED BY: Martin Glub. TITLE: Environme	mby Gadosist DATE: 2/21/03:

Bruce Bryout

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

98059-027

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 L& -18M	"F" Section: 06
	town ship : 29 A
	RANge: 10 W
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
SOUNCE: / DNG KUN DRUM. SOMEBOO	ly took plug out.
Description: Elman 3000 15-40	>.
Description. EINTRE Source 15 1-	
х.	
· · · · · · · · · · · · · · · · · · ·	
RRUCH BRHAN	representative for:
I. BRUCE BRYAN (Print Name) UNIVERSAL COMPRESSION.	representative for
Universal COMPRESSION.	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,
EXEMPT oilfield waste NON-EXEM	APT oilfield waste which is non-hazardous by characteristic by product identification
anaiysis 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	ition is attached (check appropriate items):
\underline{X} MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Lovele of I	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
	· · ·
Name (Original Signature):	wan

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	$30, 40, \overline{15W-40}$
Product Use Natural Gas Engine	Oil
Tradenames and Synor 7513, 7514, 7515	yms Conoco Base Codes
Ρ.(
PHONE NUMBERS Product Informat Transport Emerge Medical Emergen	ncy CHEMTREC 1-800-424-9300

COMPOSITION/INFORMATION ON INGREDIENTS

mponents Material	CAS Number %	
Highly refined base oils	>80	
Proprietary additives	<20	

If oil mist is generated, exposure limits 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.

202 C (396 F) (SAE 30)

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point

	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 15Ŵ-40)
Method	Cleveland Opén 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

TRANSFERSO -

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 NIOSHapproved 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 appl	.y.
PEL	(OSHA)	5 mg/m3, 8 Hr. TWA	-
TLV	(ACGIĤ)	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 Vapor Pressure Vapor Density % Volatiles Evaporation Rate Solubility in Water Odor Form Color Specific Gravity Density

700-1100 F (371-593 C) Nil >1 (Air = 1) Nil Insoluble Petroleum hydrocarbon (mild) Liquid Amber to Brown 0.88 @ 60 F (16 C) 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 Flammability Reactivity	1 1 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.

pordinator
Inc.
2197
n, TX 77252
293-5550

End of MSDS

atrict I - (505) 393-6161 D. Box 1980 bbs, Ni4 88241-1980 atrict II - (505) 748-1283 1 S. First cesia, NM 88210 Turict III - (505) 334-6178 Trict III - (505) 334-6178 Trict III - (505) 334-6178 Trict IV - (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT	n Submit Original Plus 1 Copy to appropriate District Office
	mark west
1. RCRA Exempt: 🛄 Non-Exempt: 💟	4. Generator Hydrocanbons
Verbal Approval Received: Yes No	5. Originating Site Squarco OP
2. Management Facility Destination Jacility, UF#2	6. Transporter Various
3. Address of Facility Operator 5796 US Hwyley Jarmington, NM 87401	8. State (07MM
7. Location of Material (Street Address or ULSTR) SW/NE, Sec. 34, T33D RFW, Ja Plu	ta Countu
9. <u>Circle One</u> :	
 B. All requests for approval to accept non-exempt wastes must be accorrect provements of 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 	of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Sube oil contaminated soil from gas com	presson.
Cws & analysis attached.	1
	FEB 2003 FEB 2003 ON-COUST. 3 ON-COUST. 3
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) cy
SIGNATURE: Marine Comment Facility Authorized Agent TITLE: Presider	nt DATE: 718102 M
	PHONE NO. (505) 632-0615
(This space for State Use)	
APPROVED BY: Deny Pourt TITLE: Enviro	/ Engi DATE: 2/18/03
APPROVED BY: Muty 344 - TITLE: Environm	to 6 Geologicat DATE: 2/21/63

970 375 7770

11/15/02 (978) 375-7770

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

FORERUNNER CORP.

Jun 24 02 08:22p Forerunner Corp Durango

11-15-02:11:25AM:ENVINUIECH

GARY E. JOHNSON GOVERNOR

GIL CONSERVATION DIVISION ATTEC DISTRICT DIFICE 1000 KIQ BRAZDS ADAD AITEC, NEW WEXICO 47410 (888) 336-6175 PAK (808),134-6170

IENNIFER A. SALISBURY CABINET SECRETARY .

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Mark West Hy drucar bons Inc	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Eilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Streat address &/or ULSTR):
Ignacio CDP compressor Stat	ion SW/NE Sec. 34, T 33 N, R-7W
	Kaplata Co. Colo.
Attack libt of originating sites as appropriate 4. Source and Description of Waste	
Compressor lube oil from gas compressor	
1988, regulatory dotermination, the above described EXEMPT oilfield waste X NON-EXEM	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July.
and that nonhing has been added to the exempt of no	
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis X Chain of Custody	
This waste is in compliance with Regulated Lavels of I to 20 NMAC 3.1 subpart 1403,C and D.	Vaturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): Honry Heas	tr
Name (Original Signature): Konhy Kens Title: Construction Coordinate	<u>r</u>
Date: 11-15-02	

104.11

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	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.

Ånalyst

<u>Mistin</u> Review alter n
Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

		0.1/00					N/A
Client:			Project #:				
Sample ID:		06-26-TM QA/QC		Date Reported:			06-26-02
Laboratory Number:		23143 Date Sampled:				N/A	
Sample Matrix:		Soil		Date Rece	eived:	N/A	
Analysis Requested:		Total RCR	A Metals	Date Anal	yzed:	06-26-02	
Condition:		N/A		Date Dige	Date Digested: 06-26-02		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		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/Kg)		Added	an Chin	Sample	Recovery		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%

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

m Walters Review

			CHAIN O	OF CUST	F CUSTODY RECORD	0				1
Fare RUNNER Carp	d co						1	10027	7	
Client / Project Name Mark West Rychoranton Co	iorailan	Corp -	Project Location		ANAL	ANALYSIS / PARAMETERS				
Sampler:			Client No. <i>0</i> 2072 - 30	2-001	ainers Allors A.A.			Remarks	SX SX	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix						
Lidso oil Contaninated	6-24-02	IS:00	23143	Loil	× 1					
1			- ** *							
			-							
Relinquished by: (Signature)	e)			Time	Received by: (Signature)	4		Date		Time
es es est	2	Þ	9	0091 70-47-9	24	10UTEn		(e/24/02		10:00
Refinquished by: (Signature)	()			Recc	Received by: (Signature)		, S			
Relinquished by: (Signature)	(ə			Rece	Received by: (Signature)					
				FOVIDOTE	VIDOTFCH IOC		Samp	Sample Receipt	pt	
			-1 (- 15						z ≻	N/A
				5796 U.S. Highway 64	Jhway 64 Movico 87401		Received Intact	t		
				(505) 632-0615	0615	U	Cool - Ice/Blue Ice	e		

District I - (505) 393-6161 New Mexico P. C. Box 1980 Energy Minerals and Natural Resource Hobbs, NM 88241-1980 Energy Minerals and Natural Resource District II - (505) 748-1283 Oil Conservation Division 811 S. First 2040 South Pacheco Street P' trict III - (505) 334-6178 Santa Fe, New Mexico 87505 Nico Brazos Road (505) 827-7131	on Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Systems Inc.
Verbal Approval Received: Yes 🔲 No 💢	5. Originating Site 32-8 #229
2. Management Facility Destination Facility, LF H	6. Transporter Paul + Sono
3. Address of Facility Operator 5796 US Husy 64 Jasmington, NM 8740)	8. State NOIN MORICO
7. Location of Material (Street Address or ULSTR) 1999 'FSL, 900 'FWL	imam
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accepted accept on the certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted accept 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:	
•	on a unit that's
been nemoved. Discovered during	final docation
Oil contaminated soil from leak been venoved. Discovered during Cleanup.	C CILLING
CWS & Trace metals atta	
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) cy
SIGNATURE: Management Facility Authorized Agent TITLE: PRISIAL	H DATE: 1018102 J
	EPHONE NO. (505) 632-0615
(This space for State Use) APPROVED BY: Demotoust TITLE: Envirol Have ne Mathematication of the Service of th	Engr DATE: 2/18/03 m to/ Grodogist 2/24/03 ngist DATE: 2-18-03



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

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JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

· •	·
1. Generator Name and Address:	2. Destination Name:
COMPRESSOR SYSTEMS INC,	Envirotech Soil Remediation Facility
5995 US: HWY 64	Landfarm #2
FARMENGTON N.M. 87461	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
32-8#229 1999F5L+900	FWL SECT 20 T-32-N, R-8-W NMPM
	-
Attach list of originating sites as appropriate	
4. Source and Description of Waste	· · · · · · · · · · · · · · · · · · ·
	ONGER ON LOCATION. FINAL LOCATION
CLEAN UP.	·
· · · · · · · · · · · · · · · · · · ·	· · · · ···· · ·
· · · · · ·	
· · · · · · · · · · · · · · · · · · ·	
	• • • • • • • • •
I, <u>Chaule Ray</u> (Print Name)	representative for:
COMPRESSOR SYSTEMS I	do hereby certify that,
1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check expropriate classification)
EXEMPT oilfield waste	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-nazaroous waste defined above.
For NON-EXEMPT waste the following documenta	ation is attached (check annronriate items):
× 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):	2
Name (Original Signature):	<u> </u>
Title: <u>LEAD SERVACE</u> TECH	
Date: 10/8/02	
Uale. 10/0/02	

WIROTEC

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

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· · · ·				
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	
Concentration Parameter (mg/Kg)			Regulatory Level (mg/Kg)	
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)		
Parameter		Limit	Level	
Parameter Arsenic		Limit	Level	
	(mg/Kg)	Limit (mg/Kg)	Level (mg/Kg)	
Arsenic	(mg/Kg) 0.010	Limit (mg/Kg) 0.001	Level (mg/Kg) 5.0	
Arsenic Barium	(mg/Kg) 0.010 2.18	Limit (mg/Kg) 0.001 0.001	Level (mg/Kg) 5.0 100	

ND - Parameter not detected at the stated detection limit.

ND

ND

0.004

References:

Mercury

Silver

Selenium

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.

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PRACTICAL SOLUTIONS FOR A BETTLER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

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Client:		QA/QC		Project #:			N/A
Sample ID:		10-10-TM QA/QC		Date Rep	orted:		10-10-02
Laboratory Number:		23980		Date Sam	pled:	N/A	
Sample Matrix:		Soil		Date Rec	eived:	N/A	
Analysis Requested	:	Total RCRA Metals		Date Anal	Date Analyzed:		10-10-02
Condition:		N/A		Date Dige	ested:	10-09-02	
Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detecti Limi	しががく ボンドレーシー ぶんしりょうしつ はんト	Duplicate	e % 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%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Sample Spiked Percent 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

Client / Project Name CST Sampler: Hawlew W. Zwow Sample No./ Sample Sample Identification Date Time							
لم وي معمد الم Sample Date	Project Location	B# 229		ANALYSIS / PARAMETERS	AMETERS		
Sample Date	Client No. O (O 3 B	38-006	ainers			Remarks	
	e Lab Number	Sample Matrix					
Evel 10.8.02 14:50	185660	Soil					
				· · ·			
		in the second					
Relinguished by: (Signature)	 \	Date Time Rece	Received/by: (\$ignatute)			Date אליר	Time اک:
Relinquished by: (Signature)			Received by: (Signature)				
Relinquished by: (Signature)		Rece	Received by: (Signature)				
		FOVIDOTFCH IOC	CH DC H DC		Sampl	Sample Receipt	
						>	N N/A
		5796 U.S. Highway 64 Earmington New Mexico 87401	Jhway 64 Mavico 87401		Received Intact	~	
		(505) 632-0615	0615		Cool - Ice/Blue Ice) B	

с.			•
Bistrict I ~ (505) 393-6161 O. Box 1940	New Mexico	1	Form C-138
(100 - 100) (505) 740 (202)	ls and Natural Resource	•	Originated 4/18/95
11 S. First O	il Conservation Division	1	Submit Original
<u>Histrict III</u> - (505) 334-6178	2040 South Pacheco Street Santa Fe, New Mexico 87505		Plus I Čopy
000 Rio Brazos Road ztec, NM 87410	(505) 827-7131		to appropriate District Office
<u>)istrict IV</u> - (505) 827-7131		98059-0	030
REQUEST FOR	APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: 🔲 Non-Exempt: 🌱		4. Generator	na O
Verbal Approval Received: Yes	D'al No	5. Originating Site	on que
2. Management Facility Destination	ich Hulltop Remediation	6. Transporter Enviro	oph
3. Address of Facility Operator Jarminut		8. State NOW MONI	10
7. Location of Material (Street Address or UL	1512 mild A Derth		
9. <u>Circle One</u> :	un 1977 and a state of the stat	·······	
A. All requests for approval to accept oilf	ield exempt wastes will be acco	mpanied by a certification of w	aste from the
Generator; one certificate per job.			
 B. All requests for approval to accept no PROVE the material is not-hazardous 			
listing or testing will be approved.			÷
All transporters must certify the wastes deli	vered are only those consigned	for transport	
BRIEF DESCRIPTION OF MATERIAL:			
motor oil from cor	noressor soll	lod at Minah	an
n_2 + n_1 n_2 n_2 n_3	in attach	and the out of o	reuk.
metals analys	s ununed.	ATTO A CAN	
80 0 8 - X i		FEB game E	
그는 그는 그는 것같은 것 모님?		G CIL SIV. R	
		SX OZINE	
2 5 -		a calabar	
Estimated Volume cy Known	i Volume (to be entered by the ope	rator at the end of the haul)	су
	<u> </u>		A 10 -
SIGNATURE: Waste Management Facility Authorized A	TITLE CAUCAD. U	dmin. asst. DATE: 121	18102
TYPE OR PRINT NAME: Lavalvea	ackson TEL	EPHONE NO. 505-632 -	0615 5
			°2
(This space for State Use)	······································	······································	
APPROVED BY: Damy For	TITLE: Enviro,	Engr DATE: 2	118/03
AFFROVED DI. P. COULT / CO	· /	·	/
APPROVED BY: Maitim		mtal Georgest DATE: 2,	121/07
AFFROVED DT: / Vaulyn		THE DUCE THE UNIE.	



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR

98059-030

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

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:

Universal, Compression 3440 Mornigstar Drive Farmination Nm 87401

3. Originating Site (name):

Mallon Anine Plant

2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

Location of the Waste (Street address &/or ULSTR):

J 30N Ranje A 3W Soc. & Riv Arriba Attach list of originating sites as appropriate

4. Source and Description of Waste

Engine Oil + bravel universel whit # 11109

1. <u>Stave Walch</u> (Print Name) <u>Universal Compression</u>	representative for:
(Print Name)	
Universal Compression	do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) a	and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check	(appropriate classification)
EXEMPT oilfield waste \checkmark NON-EXEMPT oilfield was	te which is non-hazardous by characteristic
analysis or by product ider	ntification

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

Name (Original Signature):

Title: Field Mechanic

Date: 12-19-02

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Universal Compressor	Project #:	98059-036
Sample ID:	Unit #111109	Date Reported:	12-22-02
_aboratory Number:	24465	Date Sampled:	12-19-02
Chain of Custody:	10477	Date Received:	12-19-02
Sample Matrix:	TCLP Extract	Date Analyzed:	12-22-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
	• • • • • • •	Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.021	0.001	5.0
Barium	2.41	0.001	100
Cadmium	0.002	0.001	1.0
Chromium	0.011	0.001	5.0
	0.009	0.001	5.0
Lead	0.000		
Lead Mercury	ND	0.001	0.2
		0.001 0.001	0.2 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 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

m Walters "pristing" Review

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

Client: Sample ID: Laboratory Number: Sample Matrix: Analysis Requested: Condition:		QA/QC 12-22-TCM 24465 TCLP Extrac TCLP Metals N/A	ot	Project #: Date Report Date Sampl Date Receiv Date Analyz Date Extrac	ed: /ed: :ed:		N/A 12-22-02 N/A N/A 12-22-02 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% - 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.

QA/QC for sample 24465.

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:

Analyst

Walters Review

HAIN OF CUSTODY RECORD	roject Location ANALYSIS / PARAMETERS	Maller D. I Comp.	5 5 6 1 6		Lab Number Sample Z OF Z S A A A A A A A A A A A A A A A A A A	24465 So.1 1 V					_	ceived by: (Signature)	1219 1540 NUME M Walte March	Received by: (Signaturg)	Received by: (Signature)		5796 U.S. Highway 64 Received Intact	Farmington, New Mexico 87401 (505) 632-0615
CHAIN O	Project Location	Ç	Client No.	-1.5080		13:20 24465	 					Da	1219					Ŭ.
		Compressor	-		Sample Sample Date Time	N						e)	ler	e)	e)			
	Client / Project Name	IL niversel (2 2 2	Sample No./ Identification	1011 # 111109						Relinquished by: (Signature)	More Lille	Relinquished by: (Signature)	Relinquished by: (Signature)			

Kieling, Martyne

From:Phil Nobis [phil@instreem.net]Sent:Thursday, September 19, 2002 7:23 AMTo:Kieling, MartyneSubject: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.

in a sa

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

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 Resour Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	ECEIVED FEB 1 0 2003	Form C-138 Revised March 17, 1999 Submit Original Plus 1 Copy to Appropriate District Office
REQUEST FOI	R APPROVAL TO ACCEP	T SOLID WASTE	
1. RCRA Exempt: 🗌 Non-Exempt: 🗵		4. Generator: BJ Servio	ces
Verbal Approval Received: Yes		5. Originating Site: Wa	sh Bay
2. Management Facility Destination: Enviro Landfarm #2	otech Soil Remediation Facility,	6. Transporter: Riley	
3. Address of Facility Operator: 5796 U.S. 87401	Highway 64, Farmington? NM	8. State: New Mexico	
7. Location of Material (Street Address or UI Road, Farmington	LSTR) 3250 Southside River	Project #95026-001	
9. <u>Circle One</u> :			
A. All requests for approval to accept oilfie one certificate per job.	ld exempt wastes will be accompanied by	v a certification of waste from	n the Generator;
B. All requests for approval to accept non-e	exempt wastes must be accompanied by nearborn by nearborn of origin. No waste cl		

BRIEF	DESCRIPTION	OF MATERIAL:

Wash bay solids continuation. TCLP dated 3/15/02, Re-affirmation, CWS attached.

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

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: Jon Town TITLE: Enviro/Engi DATE: 2/03/03
APPROVED BY: / Maty My TITLE: Environment beday of DATE: 2/10/03



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT DEFICE 1060 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-8178 Fax (506)334-6170

2/ 3

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BJServices 3250 Southside River Road	Envirotech Soil Remediation Facility Landfarm #2
FARMINGTON, New Mex. 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Wash Bay	
Attach list of onginating sites as appropriate	
4. Source and Description of Waste	
WASH BAY CONTINUATIO	
1. Les Baugh BJ Services (Print Name)	representative for:
DT - (Print Name)	
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	do hereby certify that ery Act (RCRA) and Environmental Protection Agency's July I waste is: (Check appropriate classification)
EXEMPT oilfield waste X NON-EXE analysis o	MPT oilfield waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or n	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following document MSDS Information	tation is attached (check appropriate items): Other (description):
X RCRA Hazardous Waste Analysis X Chain of Custody	
This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuan
Name (Original Signature):	
Title: FACILITIES Supervisor	-

03 Date:



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 TC	JI5102
Printed Na	me <u>Les Baugh</u>
Title / Ager	ner Facilities Supr.
Address	3250 Southside River Road
	FARMINGTON, New Mex 87401
Signature	Les Lough
Date	2/3/03

5053275766 200/200°3 TELT# FEB.03'2003 09:02 RECEIVED FROM: NOLDNIWAVA STA

800-003 80235 802352865 EEE 03.5003 03:55 802352290

PRACTICAL SOLUTIONS FOR A SEMIER TOMORHOW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

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5.0

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

0.001

0.001

0.001

0.001

ND - Parameter not detected at the stated detection limit.

0.001

ND

ND

ND

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:

Lead

Silver

Mercury

Selenium

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

Alistine m) Review Walter

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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.

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

Note:

Comments:

3250 Southside River Rd., Farmington, NM 87401.

Analyst

Mister maeters

PRACTICAL SOLUTIONS FOR A BEITER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Condition:	Cool & Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	03-20-02
Sample Matrix:	TCLP Extract	Date Extracted:	03-18-02
Chain of Custody:	9853	Date Received:	03-15-02
Laboratory Number:	22302	Date Sampled:	03-15-02
Sample ID:	Wash Bay Sludge	Date Reported:	03-20-02
Client:	BJ Services	Project #:	95026-001

		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 Acce	ptance Criteria	Parameter	Percent Recovery
	· · · · ·	Fluorobenzene	100%
		1,4-difluorobenzene	100%
		4-bromochlorobenzene	100%
References: Method 1311, Toxicity Cl		Characteristic Leaching Procedure, SW-8	46, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
o		ted Volatile Organic, SW-846, USEPA, S	Sept. 1994.
		Volatile Organics, SW-846, USEPA, Sep	t. 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

Mustin Molters Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORIROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	BJ Services	Project #:	95026-001
Sample ID:	Wash Bay Sludge	Date Reported:	03-19-02
Lab ID#:	22302	Date Sampled:	03-15-02
Sample Matrix:	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	

Comments:

3250 Southside River Road, Farmington, NM 87401.

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m Walters Review

PRACTICAL SOLUTIONS FOR A BEITER TOMORROW

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 Accepta	ance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	99%
References:		Characteristic Leaching Procedure, S	
		ory Funnel Liquid-Liquid Extraction, S matics and Cyclic Ketones, SW-846,	· · · ·
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.
Comments:	3250 Southside Ri	iver Rd., Farmington, NM 874	01.

<u>P</u> m

m Walter Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

PRACTICAL SOLUTIONS FOR A BETTLER TOMORBOW

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:

Analyst

m Walter <u>Anistin</u> Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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7.5

Client:	QA/QC	Project #:	N/A
-	Method Blank	•	
Sample ID:		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

ND - Parameter not detected at the stated detection limit.

ND

ND

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	98%

0.0003

0.0002

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:

Chlorobenzene

1,4-Dichlorobenzene

Analyst

Mist Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-20-02
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:

Analyst

m Walters mistri Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORIOW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	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

	Sample	Spike	Spiked Sample	Det.		SW-846 % 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	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:

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Review

PRACTICAL SOLUTIONS FOR A BETTLER TOMORROW

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	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
2,4,0-memorophenoi			
2,4,5-Trichlorophenol	ND	0.020	400

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

mbleeter nistre Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-21-02
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 Recove	ries: Parameter	Percent Recovery
	2-Fluorophenol 2,4,6-Tribromophenol	98% 99%
	Method 1311, Toxicity Characteristic Leaching F Waste, SW-846, USEPA, July 1992.	Procedure Test Methods for Evaluating Solid
	Method 3510, Separatory Funnel Liquid-Liquid B Waste, SW-846, USEPA, July 1992.	Extraction, Test Methods for Evaluating Solid
	Method 8040, Phenols, Test Methods for Evalua	ting Solid Waste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40 CFR part 261 su	opart C section 261.24, July 1, 1992.
Comments:	QA/QC for sample 22302.	
Analyst	- african	Aniste of Walten Review

PRACTICAL SOLUTIONS FOR A BETTER TOMOBROW

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 Acce	otance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	Characteristic Leaching Procedure Test A, July 1992.	Methods for Evaluating Solid
	Method 3510, Separato Waste, SW-846, USEP/	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wast	e, 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. Ofur	- Mistu Review	. m Walter

Analyst

Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-21-02
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 Acceptar	nce 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.					
,	•	matics and Cyclic Ketones, SW-84				
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C s	ection 261.24, July 1, 1992.			
Comments:	QA/QC for sample	22302.				

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	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 Accep	tance Criteria	Parameter	Percent Recovery		
		2-fluorobiphenyl	96%		
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, S	W-846, USEPA, July 1992.		
	Method 3510, Separato	ory Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.		
	Method 8090, Nitroaror	natics and Cyclic Ketones, SW-846, I	USEPA, Sept. 1986.		
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sect	ion 261.24, July 1, 1992.		

Comments:

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m Walters Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-21-02
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 Pyridine	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)	
Puridino	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.

and the second s			
QA/QC Acceptance		Davassafas	Maximum Difference
$ (1 \land / (1)) \land	Criteria	Parameter	Maximum unterence
	Ontenta		

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.

8090 Compounds

Comments:

QA/QC for sample 22302.

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Walters Review

30%

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PRACTICAL SOLUTIONS FOR A BETTLER TOMORROW

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

Client:	QA/QC			Project #	Project #:				
Sample ID:		03-19-TCM QA/QC			oorted:		03-19-02		
Laboratory Number:		22302		Date Sar	npled:		N/A		
Sample Matrix:		TCLP Extra	act	Date Rec	eived:		N/A		
Analysis Requested:		TCLP Meta	als	Date Ana	lyzed:		03-19-02		
Condition:		N/A		Date Extr	acted:	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	ND 1	0.001	ND	ND	0.0%	0% - 30%		

Acceptance Conc. (mg/L) Addec Sample Recovery Range ND 0.500 0.498 Arsenic 99.6% 80% - 120% 0.500 0.440 0.938 99.8% Barium 80% - 120% Cadmium 0.500 ND 0.499 99.8% 80% - 120% 0.001 0.500 Chromium 0.500 99.8% 80% - 120% 0.500 0.001 0.499 99.6% Lead 80% - 120% Mercury 0.050 ND 0.049 98.0% 80% - 120% Selenium 0.500 ND 0.497 99.4% 80% - 120% 0.500 ND 0.499 99.8% Silver 80% - 120%

Sample

Spike

Spiked

Percent

ND - Parameter not detected at the stated detection limit.

References:

Spike

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:

Analyst

Mistin

09853	RAMETERS	Remarks								3-15-02 9:15		Sample Receipt	Y N N/A	Received Intact	Cool - Ice/Blue Ice
F CUSTODY RECORD	- Rd 22 YS/	of ainers	oN						Received by: (Signature)		Received by: (Signature)	ENVIROTECH INC.		5796 U.S. Highway 64 Farmington, New Mexico 87401	(505) 632-0615
CHAIN OF CL	roject Name Project Location 3250 South scherkiver	HARLAN W. Brows Client No. 95026-001	Sample No./SampleSampleSampleIdentificationDateTimeLab NumberMatrix	Wash Bay Sludge J. 15.02 Bi35 22302 Sludge					Relinquished by: (Signature) Date Time		Relinquished by: (Signature)	EDVIRC		5796 L Farmington	(50
٩	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

FFR 1 0 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: Transwestern Pipeline
Verbal Approval Received: Yes No 🛛 No 🖾	5. Originating Site: Bloomfield Compressor Station
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) 41 CR 4935 Lot 41, Bloomfield	Project #01002-002

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

TITLE: Environmental Administrative Assistant DATE: 1/31/2003 SIGNATURE 5 - 2001 20 Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Landrea R. Jackson TELEPHONE NO: (505) 632-0615

(This space for State Use)		
APPROVED BY: Deny tous TITLE:	Env vo/Engr	DATE: 02/0303
	nuivonmental Geologisz	DATE: 02/10/03

FAX NO. :5056323833

Jan. 31 2003 11:53PM P2





NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

.

CIL CONSERVATION DIVISION A2780 DISTRICT OFFICE 1000 RIO BRAZDS ROAD A2780, NEW MEXICO 87419 (505) 234-5175 Fax (805)354-5176

GARY E. JOHNSON COVERNOR

JENNIPER A. SALISBURY CABINET SECRETARY

- - -

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
TRANSWESTERN PIPELINE	Envirotech Soil Remediation Facility
CR 4935 LOT 411 PO BOX 399	Landfarm #2
BLOOMFIELD NM 87413	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTA):
	CR4935 LOT 41
BLOOMFIELD COMPRESSOR	BLOOMFIELD NM 87413
STATION	BLOOMFIELD INA STATS
Attach list of originating sites as appropriate	
BLOOMFIELD COMPRESSOR STA	TION
BLOOMFIELD LOMPRESSOR SIN	
OILY DIRT .	
-	
, JEFF GREIDER	representative for:
(Print Name)	do hereby certify that.
TRANSWESTERN PIPELINE	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July,
TRANSWESTERN PIPELINE	ery Act (RCRA) and Environmental Protection Agency's July,
TRANSWESTERN PLPELINE according to the Resource Conservation and Recov 1988, regulatory determination, the above described	ery Act (RCRA) and Environmental Protection Agency's July, I waste Is: (Check appropriate classification)
TRANSWESTERN PLPELINE according to the Resource Conservation and Recov 1988, regulatory determination, the above described EXEMPT oilfield waste	ery Act (RCRA) and Environmental Protection Agency's July, I waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic
TRANSWESTERN PLPELINE according to the Resource Conservation and Recov 1988, regulatory determination, the above described EXEMPT oilfield waste	ery Act (RCRA) and Environmental Protection Agency's July, I waste Is: (Check appropriate classification)
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TRANSWESTERN PIPELINE according to the Resource Conservation and Recov 1988, regulatory determination, the above described EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or n	ery Act (RCRA) and Environmental Protection Agency's July, I waste Is: (Check apprepriete classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazerdous waste defined above.
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RACTICAL SOLUTIONS FOR A BETTER TOMORROW

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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	0.001	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

Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 Anal	yzed:		01-10-03
Condition:		N/A		Date Dige	sted:		01-09-03
Blank & Duplicate Conc. (mg/Kg)	linstrument Blank (mg/L	V X /29 M 20	Detection Limit	Sample	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%
Spike		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/Kg)		Added	Gampio	Sample			Range
an a	elye'tik, eK'is onosi'tim f	A ALIZZARI CONTRA DOMENSI		all e constanta da Unita	an a	1,97,77999,977,777,777,797,978,988,988,971	nanden of the second
Arsenic		0.500	0.004	0.503	99.8%		80% - 12 0%
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% - 12 0%
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 samples 24536 - 24537.

Analyst

Review

Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

	· · ·								
Client:	Transwestern Pipeline	Project #:	01002-002						
Sample ID	, #2	Date Reported:	01-10-03						
Lab ID#:	24537	Date Sampled:	01-08-03						
Sample Matrix:	Soil	Date Received:	01-08-03						
Preservative:	Cool	Date Analyzed:	01-09-03						
Condition:	Cool and Intact	Chain of Custody:	10534						
Parameter	Result								
IGNITABILITY:	Negative								
CORROSIVITY:	Negative	рН = 8.13							
REACTIVITY:	Negative								
RCRA Hazardous Waste Criteria	а								
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:	(i.e. Violent reaction with wat	s defined by 40 CFR, Subpart C, Sec. er, strong base, strong acid, or the ger ses at STP with pH between 2.0 and 1	neration						
Reference:	40 CFR part 261 Subpart C s	ections 261.21 - 261.23, July 1, 1992							

Comments:

Transwestern Yard.

Analyst

Review

10534		Remarks							Date Time				Sample Receipt	Y N/A	act	e lce
	ANALYSIS / PARAMETERS							 					Sar		Received Intact	Cool - Ice/Blue Ice
CUSTODY RECORD	ANALYSIS / F	I	L	7	7				ure)	るアノ	ture)	ture)	C			
TODY F		ر ۲۰۰۵ میں ۱۰۵ ۱۳۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰	noCont	\ \ \	1			 	Received by/(Signature)		Received by: (Signature)	Received by: (Signature)			5796 U.S. Highway 64	Farmington, New Mexico 87401 (505) 632-0615
	ave jaro	002	Sample Matrix	S/up ye	So, 1 0					0/ag/03/1, :30			EOVIDO1		5796 U.S	Farmington, IV (505)
CHAIN OF	Project Location	Client No. 0 / 002 - 00 2	Lab Number	24536	24537				 	2					ł	
	P.PENNE	. Housey	Sample Sample Date Time	01/0 00/03 1412	01/00/03 1425				ref	a l	re)(re)				
	Client / Project Name	Sampler: Mellssing PM.	Sample No./ Identification	#/	¢ \$				Relinquished by: (Signature)	K WK	Relinduished by: (Signature)	Relinquished by: (Signature)				

<u>istrict I -</u> (505) 393-6161 O. Box 1940		ew Mexico	2	Form C-138
<u>istrict II</u> - (505) /48-1283	Energy Minerals and Oil Con	Natural Resources	Department	Originated 4/18/95
11 S. First rtesia, NM 88210	2040 S	outh Pacheco Street	WT .	Submit Origina
<u>istrict III</u> - (505) 334-6178 000 Rio Brazos Road		New Mexico 87505 05) 825-7131_JAN 2000	J. J	Plus 1 Copy to appropriate
ztec, NM 87410 <u>istrict IV</u> - (505) 827-7131	()	No necesia		
		RE DIS	M SH	20
F	REQUEST FOR APPRO	VT 2.1.		
1. RCRA Exempt: 🔲	Non-Exempt:	rts mby 11.8 2	A. Generator	renton
Verbal Approval Receiv			5. Originating Site Ma	in yard
2. Management Facility De		rel Remediation reference #2	6. Transporter Halli	surto-
3. Address of Facility Ope	Talor Farmington	nm 87401	8. State nm	
7. Location of Material (St	reet Address or ULSTR)	9 E. Main Form	notar nm 87	402
9. <u>Circle One</u> :		<u> </u>	The grape, funder	
A All requests for on	proval to accort alifiald over			
Generator; one cer				
B. All requests for app PBOVE the materia	proval to accept non-exempt al is not-hazardous and the G	wastes must be accomp	anied by necessary chem	nical analysis to
listing or testing wil			i Uligili. NU waste classine	
All transporters must ce	rtify the wastes delivered are	only those consigned fo	r transport	· · ·
A18 A39				
BRIEF DESCRIPTION OF				
Jodum Juli	cate and HcL	. Solution	pumped do	wn-
hole for we	ll treatment	Return flow	could not be	
placed back	ll treatment unto transpor transport.	t where it o	orcipitatad	- · ·
and olygoed	tran Most	r		
una panggua	Caller .	attached	MSDS attack	rod
	- RCRU	anana.		
17				
Estimated Volume	cy Known Volume (o be entered by the operat	or at the end of the haul) —	су
- Sc. d.		$\rho \cdot \rho$		107100
SIGNATURE Waste Manag	ement FacilityAuthorized Agent	ビート・シート アン・トリート たいかく	min. asst. DATE: 1	•
TYPE OR PRINT NAME:	and rea Jackso		HONE NO. (505) 632	2-0615
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(This space for State Us				
APPROVED BY:	my Jour	TITLE: Enviro/	Engt DATE:	1/31/03
an	9	· · · · · · · · · · · · · · · · · · ·	•	
APPROVED BY: Mon	tym the.	TITLE: Znuironn	mhilbrologs/ DATE: 2	15/03
	- 0	· · · · · · · · · · · · · · · · · · ·		

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1010-646 (CUE) - 11010-6461 New Mexico Form C-143 1625 N. French Dr 3/15/00 Hobbs, NM 88240 **Energy Minerals and Natural Resources Department** District 11 - (505) 748-1283 mDy recel 811 S. First Oil Conservation Division Artesia, NM 88210 verbal approval Submit to OCD District III - (505) 334-6178 2040 South Pacheco Street 1000 Rio Brazos Road Santa Fe. New Mexico 87505 Permitted Surface Aztec, NM 87410 10am 1123103, prom (505) 827-7131 Waste Management District IV - (505) 827-7131 2040 S Pacheco martyno pending KCRQ Facility Santa Fe, NM 87505 **GENERATOR CERTIFICATE OF WASTE STATUS** 1. Waste Generator Name and Address: 2.Permit Number (if waste generated at an OCD HalliburTow ENergy Services 4109 EMain ST permitted facility) Farming TON N.M. 87402 3. Description of Waste and Generating Process: Location of Waste (Street address &/or ULSTR): Sod ium Silicate of Hal Solation Halliburtow Energy Services Pumped down Hole For well Treatment 4109 E. Main STree Could Notplace Return Flow to Transport where IT pericipilated + pliagged Transport FarmingTow 5. Destination (Surface Waste Management Facility): 6. Transporter: ENVIRO Techl. F. Hall. bur Tow 7. Estimated Volume <u>ice</u> cy/bbls For NON-EXEMPT waste only, the following documentation is attached (check appropriate items): MSDS Information RCRA Hazardous Waste Analysis (With Chain of Custody). RCRA ANGLISIS Other (Description) 3enerator certifies that, according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (check appropriate classification) NON-EXEMPT oilfield waste that is non-hazardous EXEMPT oilfield waste. pursuant to 40 CFR Part 261. (Attach appropriate documentation) n addition, Generator certifies that nothing has been added to this exempt or non-exempt non-hazardous waste and that this vaste does not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403. Date: 1-23-07 Senerator Signature: rint Name: Mer itle: Material Con

ENVIROTEC ABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORBOW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-026							
Sample ID:	1 - Sodium Silicate	Date Reported:	01-23-03							
Lab ID#:	24627	Date Sampled:	01-23-03							
Sample Matrix:	Liquid	Date Received:	01-23-03							
Preservative:	Cool	Date Analyzed:	01-23-03							
Condition	Cool and Intact	Chain of Custody:	10571							
Parameter	Result	·								
ÍGNITABILITY:	Negative									
CORROSIVITY:	Negative	pH = 6.84								
REACTIVITY:	Negative									
RCRA Hazardous Waste Crite	eria	•								
Parameter	Hazardous Waste Criterion									
IGNITABILITY:		lefined by 40 CFR, Subpart C, Sec. 261.21. 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:	(i.e. Violent reaction with water,	efined by 40 CFR, Subpart C, Sec. 261.23. strong base, strong acid, or the generation s at STP with pH between 2.0 and 12.5)								
Reference:	40 CFR part 261 Subpart C sec	tions 261.21 - 261.23, July 1, 1992.								

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Comments:

Halliburton Yard - Farmington.

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Review

10571	AMETERS	Remarks							Date Time $\sqrt{-23}d3$ 9.140			Sample Receipt	Y N N/A	Received Intact
CHAIN OF CUSTODY RECORD	Client / Project Name Project Location HALLIBURTON 1/ARJ - FARMINGON 2 ANALYSIS / PARAMETERS	Sampler: DEAN KRusse 92132-026	Sample Sample Lab Number Sample Ž	Sodiui-Silicate 1-23-03 9:01 24627 Liquid 1 1					Relinquished by: (Signature) // Autouse II al-23-03 9:40 // C	Relinquished by: (Signature) Received by: (Signature)	Relinquished by: (Signature) Received by: (Signature)	FOVIROTECH INC		5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615

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01/22/03 PAGE 01 OF 01 HALLIBURTON ENERGY SERVICES - SHIPPING PAPERS FOR MOVEMENT OF MATERIALS ACCORDING TO FEDERAL REGULATION AS SPECIFIED IN CFR 49, SEC.177.817 AND 176.24 LOCATION: FARMINGTON FOR EMERGENCY CONTACT: TRUCK# OR TRLR# : 6225 NAME: RANDY SNYDER TELEPHONE: (505) 324-3500 DRIVER U.S. DOT HAZMAT REG. NO. - 060700 005 0251 * * TOT GROSS LBS 4,897 NUM CONTAINERS: TYPE: 1 TO 1 * * 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 MATERIALS ARE PROPERLY CLASSIFIED,

DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

1. 1. Anna

SIGNATURE

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INJECTROL(R) COMPONENT A - 54 GALLONS 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 * * * * * * * * * * * SECTION I - PRODUCT DESCRIPTION * * * * * * * * * * * * * * CHEMICAL CODE: INJECTROL(R) COMPONENT A - 54 GALLONS PART NUMBER: 070156070 PKG OTY: 54 GALLON DRUM APPLICATION: RESIN SERVICE USED: WATER & SAND * * * * * * * * * * SECTION II - COMPONENT INFORMATION * * * * * * * * * * * * * PERCENT TLV PEL · 31-60 % C 2 MG/M3 2 MG/M3 SODIUM SILICATE * * * * * * * * * * * * SECTION III - PHYSICAL DATA * * * * * * * * * * * * * * * 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 PН 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 * * * * * * * * * SECTION IV - FIRE AND EXPLOSION DATA * * * * * * * * * * * * * NFPA(704) RATING: HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 SPECIAL NONE NONE FLASH POINT 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. * * * * * * * * * * * * SECTION V - HEALTH HAZARD DATA * * * * * * * * * * * * * *

CALIFORNIA PROPOSITION 65:

PN: 070156070

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65. CARCINOGENIC DETERMINATION: PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN "NTP, IARC, OSHA, OR, ACIGH". ACCORDING TO : 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. * * * * * * * * * * * * * * SECTION VI - REACTIVITY DATA * * * * * * * * * * * * * * * * 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. 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 * * * * * * * 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. * * * * * * * * * * * * * SECTION IX - SPECIAL PRECAUTIONS * * * * * * * * * * * * 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 RECONDI-TIONOR 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. * * * * * * * * * SECTION X - TRANSPORTATION INFORMATION * * * * * * * * * * DOT SHIPPING DESCRIPTION: NOT RESTRICTED * * * * * * * * * SECTION XI - ENVIRONMENTAL EVALUATION * * * * * * * * * * * EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y FIRE: N 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) PN: 070156070 PAGE 4

CHEMICAL CONTAINS NO TOXIC INGREDIENTS

- 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

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Warning:	Courier	substituted for CourierPS	
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48

PAGE 01 OF 01 01/22/03 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 TELEPHONE: (505) 324-3500 DRIVER U.S. DOT HAZMAT REG. NO. - 060700 005 0251 * * TOT GROSS LBS 7,245 NUM CONTAINERS: TYPE: CARGO TANK *X *HYDROCHLORIC ACID SOLUTION - 8 - UN1789 - II *RQ (HYDROCHLORIC ACID - 5000 LBS) *HALCO NAME & NO.: HYDROCHLORIC ACID SOLUTION W/ HAI-85M * NIS.1116 * GROSS LBS/PKG: ERG => 60 TYPE: 55 GALLON DRUM * TOT GROSS LBS 1,168 NUM CONTAINERS: *X *SODIUM HYDROXIDE SOLUTION - 8 - UN1824 - II *HALCO NAME & NO.: MO-67 - 55 GALLONS 516.00308 * GROSS LBS/PKG: ERG => 60 8 NUM CONTAINERS: * * TOT GROSS LBS TYPE: 330 GALLON TANK *X *FLAMMABLE LIQUID, N.O.S. - 3 - UN1993 - II * (CONTAINS ISOPROPANOL) *HALCO NAME & NO.: LOSURF-300 NONIONIC SURFACTANT - HAL-TANK 516.00179 * * * GROSS LBS/PKG: ERG => 27

THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

SIGNATURE _____

DEPARTMENT OF TRANSPORTATION (DOT)

FOR PN# NIS1116_0

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HAZARD GUIDE 60

PAGE 1

HALLIBURTON SERVICESDATE: 01/22/03DUNCAN, OKLAHOMA 73536REVISED 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.

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.

FIRST AID

DEPARTMENT OF TRANSPORTATION (DOT)

FOR PN# 516003080

HAZARD GUIDE 60

PAGE 1

HALLIBURTON SERVICESDATE: 01/22/03DUNCAN, OKLAHOMA 73536REVISED 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.

DEPARTMENT OF TRANSPORTATION (DOT)

FOR PN# 516001790

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HAZARD GUIDE 27

PAGE 1

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

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

FIRE OR EXPLOSION

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

PAGE 2

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.

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

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MATERIAL SAFETY DATA SHEET DATE: 01-22-03 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 PART NUMBER: NIS1116 0 CHEMICAL CODE: HYDROCHLORIC ACID SOLUTION W/ HAI-85M PKG QTY: CARGO TANK APPLICATION: SOLVENT SERVICE USED: CHEM.SRVCS./OTIS SC * * * * * * * * * * * SECTION II - COMPONENT INFORMATION * * * * * * * * * * * * * PERCENT TLV PEL HYDROCHLORIC ACID 11-30 % C 5 PPM C 5 PPM * * * * * * * * * * * * SECTION III - PHYSICAL DATA * * * * * * * * * * * * * * * * PROPERTY MEASUREMENT . CLEAR, COLORLESS LIQUID APPEARANCE ODOR PUNGENT, ACRID SPECIFIC GRAVITY (H2O=1) 1.160 BULK DENSITY 9.66 LB/GAL 0.8 FOR 1% SOL ΡН 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 PRESSURE (MMHG) 26.00 230 F / 110 C BOILING POINT (760 MMHG) POUR POINT N/D FREEZE POINT -50 F / -45 C SOLUBILITY IN SEAWATER NOT EVALUATED PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED * * * * * * * * * SECTION IV - FIRE AND EXPLOSION DATA * * * * * * * * * * * * * NFPA(704) RATING: HEALTH 3 FLAMMABILITY 0 REACTIVITY 1 SPECIAL NONE F / FLASH POINT С 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.

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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 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. * * * * * * * * * * * * * SECTION VI - REACTIVITY DATA * * * * * * * * * * * * * * * 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 3 PAGE 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. * * * * * * * * * 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): 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. * * * * * * * * * * * * * SECTION IX - SPECIAL PRECAUTIONS * * * * * * * * * * * * PRECAUTIONARY LABELING HYDROCHLORIC ACID SOLUTION W/ HAI-85M NIS.1116 0 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. * * * * * * * * * * SECTION X - TRANSPORTATION INFORMATION * * * * * * * * * * * * DOT SHIPPING DESCRIPTION: HYDROCHLORIC ACID SOLUTION - 8 - UN1789 - II RQ (HYDROCHLORIC ACID - 5000 LBS) PN: NIS1116 0 PAGE 4 * * * * * * * * * SECTION XI - ENVIRONMENTAL EVALUATION * * * * * * * * * * EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y FIRE: N

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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 \checkmark 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.

MO-67 - 55 GALLONS

PAGE 1

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 * * * * * * * * * * * SECTION I - PRODUCT DESCRIPTION * * * * * * * * * * * * * * * CHEMICAL CODE: MO-67 - 55 GALLONS PART NUMBER: 516003080 PKG QTY: 55 GALLON DRUM APPLICATION: OIL GELLING SERVICE USED: CHEMICAL SERVICES * * * * * * * * * * * SECTION II - COMPONENT INFORMATION * * * * * * * * * * * * PERCENT TLV PEL 11-30 % C 2 MG/M3 C 2 MG/M3 SODIUM HYDROXIDE * * * * * * * * * * * * * SECTION III - PHYSICAL DATA * * * * * * * * * * * * * * * * * PROPERTY MEASUREMENT APPEARANCE CLEAR, COLORLESS LIQUID AOUO ODORLESS SPECIFIC GRAVITY (H2O=1) 1.275 BULK DENSITY 10.62 LB/GAL 14 FOR 7.5% SOL. PН SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H20 COMPLETE BIODEGRADABILITY N/D PERCENT 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 * * * * * * * * * SECTION IV - FIRE AND EXPLOSION DATA * * * * * * * * * * * * * 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. * * * * * * * * * * * * SECTION V - HEALTH HAZARD DATA * * * * * * * * * * * * * * 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 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. * * * * * * * * * * * * * SECTION VI - REACTIVITY DATA * * * * * * * * * * * * * * * * 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 PAGE 3 PN: 516003080 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:

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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 EOUIPMENT): TOXIC DUST/MIST RESPIRATOR. VENTILATION: USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION. PROTECTIVE GLOVES: IMPERVIOUS RUBBER GLOVES. EYE PROTECTION: WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM. OTHER PROTECTIVE EQUIPMENT: WEAR FULL PROTECTIVE SUIT WHEN SKIN CONTACT IS POSSIBLE. * * * * * * * * * * * * SECTION IX - SPECIAL PRECAUTIONS * * * * * * * * * * * * * 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 RECONDI-TIONOR 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 * * * * * * * * * SECTION XI - ENVIRONMENTAL EVALUATION * * * * * * * * * * * * 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 EEC N/D ACOIN N/D NPR NE DRSM NE CEPA NË TSCA YES H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

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

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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 1

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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

* * * * * * * * * * * SECTION I - PRODUCT DESCRIPTION * * * * * * * * * * * * * * CHEMICAL CODE: LOSURF-300 NONIONIC SURFACTANT - HAL-TANK PART NUMBER: 516001790 APPLICATION: NONEMULSIFIER PKG QTY: 330 GALLON TANK SERVICE USED: STIMULATION * * * * * * * * * * * SECTION II - COMPONENT INFORMATION * * * * * * * * * * * * 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 ODOR SOLVENT SPECIFIC GRAVITY (H2O=1) .910 LB/GAL BULK DENSITY 7.59 PН 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 * * * * * * * * * SECTION IV - FIRE AND EXPLOSION DATA * * * * * * * * * * * 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. * * * * * * * * * * * * * SECTION V - HEALTH HAZARD DATA * * * * * * * * * * * * * CALIFORNIA PROPOSITION 65: PRODUCT OR PRODUCT COMPONENTS ARE 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: AQU TLM96: 3.3-10 PPM(BROWN SHRIMP) PRODUCT TLV: NOT ESTABLISHED ----- EFFECTS OF EXPOSURE ------ROUTES OF EXPOSURE: EYE OR SKIN CONTACT, INHALATION. EYE · MAY CAUSE EYE IRRITATION. SKIN: FREQUENT OR PROLONGED CONTACT WILL DRY AND DEFAT THE SKIN, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. REPEATED CONTACT MAY SENSITIZE THE SKIN. INHALATION: HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS. VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION. INGESTION: ASPIRATION INTO LUNGS BY INGESTION OR VOMITING, MAY CAUSE CHEMICAL PNEUMONITIS RESULTING IN EDEMA AND HEMORRAGE AND MAY BE FATAL. SYMPTOMS INCLUDE INCREASED RESPIRATORY RATE AND 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. * * * * * * * * * SECTION VII - SPILL OR LEAK PROCEDURES * * * * * * * * * *

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

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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. * * * * * * * * * * * * SECTION IX - SPECIAL PRECAUTIONS * * * * * * * * * * * * 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. * * * * * * * * * SECTION X - TRANSPORTATION INFORMATION * * * * * * * * * * * 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 REACTIVE: N FIRE: Y PRESSURE: N ACUTE (IMMEDIATE): Y MIXTURE OR PURE MATERIAL: MIX CHRONIC (DELAYED): N 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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| 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

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| Intrict I - (505) 393-6161 New Mexico O. Box 1980 Energy Minerals and Natural Resource | Form C-138
Originated 8/8/95 | | |
| obbs, NM 88241-1980
Energy Minerals and Natural Resource
Instrict II - (505) 748-1283
Oil Conservation Division | ▲ | | |
| 1 S. First
tesia, NM 88210 2040 South Pacheco Street | Submit Original | | |
| "trict III - (505) 334-6178 Santa Fe, New Mexico 87505 | Plus I Copy
to appropriate | | |
| Rio Brazos Road (505) 827-7131 c, NM 87410 | Env. JN: 92132 District Office | | |
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| | [] | | |
| 1. RCRA Exempt: 🔲 Non-Exempt: 🗹 | 4. Generator Hall buton E.S. | | |
| Verbal Approval Received: Yes No C
Envirotech Soil Remedia. | 5. Originating Site blain kind | | |
| 2. Management Facility Destination Facility Landfarm #2 | 6. Transporter E DUIRO Tech | | |
| 3. Address of Facility Operator 5796 US Highway 64
Farmington, NM 87401 | 8. State DEW Alapoico
4109 E alon 85 | | |
| 7. Location of Material (Street Address or ULSTR) | Formation Der 87401 | | |
| 9. <u>Circle One</u> : | U I | | |
| 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 | I for transport. | | |
| BRIEF DESCRIPTION OF MATERIAL: | | | |
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| Estimated Volume cy Known Volume (to be entered by the ope | ratoriat the end of the haul) cy | | |
| SIGNATURE: Halander Fording Autorian Manager F | anager DATE: 12.30.02 | | |
| Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE | EPHONE NO | | |
| | EPHONE NO | | |
| | Ğ | | |
| (This space for State Use) | | | |
| APPROVED BY: Deny term TITLE: Envin | 0/Engl DATE: 1/28/03 | | |
| APPROVED BY: Marty Thy TITLE: Environm | malal Galagest DATE: 1/30/03 | | |
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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

12-30-02; 9:39AM;HALLIBURTON PURCH. 12-26-02; 2:07PM;ENVIROTECH

> OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIG BRAZOS ROAD AZYEC, NEW MEXICO 87410 (505) 334-5178 Fax (505)334-5170

2/ 2 # 2/ 3

;5053243515 ;5056321865

GARY E. JOHNSON GOVERNOR

Date: <u>1</u>2

20-

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| المحمد | | | |
|---|--|--|--|
| 1. Generator Name and Address: | 2. Destination Name: | | |
| Helliburton Energy Services,
H109 E. Main | Envirotech Soil Remediation Facility | | |
| HIOG E. Main | Landfarm #2 | | |
| Harming Tow MM
3. Originating Site (name): | Hilltop, New Mexico | | |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): | | |
| SAA | Solid Stablel, Zation Pad
Fasts de yard | | |
| Attach list of originating sites as appropriate | Fastside yerd | | |
| 4. Source and Description of Waste | | | |
| Continuation of Wash Day Solid | 5 | | |
| | | | |
| 1, Dean Krause TT (Print Name) | representative for: | | |
| (Print Name) | | | |
| do hereby certify that,
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described waste is: (Check appropriate classification) | | | |
| EXEMPT oilfield waste X NON-EXEM | PT oilfield 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 Other (description):
X RCRA Hazardous Waste Analysis
Chain of Custody | | | |
| This waste is in compliance with Regulated Levels of Nato 20 NMAC 3.1 subpart 1403.C and D. | aturally Occurring Radioactive Material (NORM) pursuant | | |
| Name (Original Signature): | Thank MA | | |
| Title: Matera, Contral Suplis | | | |
12-30-02;12:36PM;HALLIBURTON PURCH. 12-30-02;10:50AM;ENVIROTECH ;5053243515 ;**5056321865** 2

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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

613/02

Merle D Kray se

Hall but Ton Enlergy Service

Printed Name

Title / Agency

Address

Signature

or IN Farming tow N.

Date

| Bec 1940
the NM 88241-1980
the III (503) 748-1283
NM 88241-1980
Bio Brazo Road
Santa Fe, New Mexico Street
Santa Fe, New Mexico STOS
Santa Fe, | | , <u> </u> | | |
|--|---|---|---|-------------------------------------|
| aia. NM 8810 2040 South Pacheco Street Submit Crime Santa ER, New Mexico 87005 950 Street Submit Crime O No Bizzer Road (505) 827-7131 950 Street Bit I Cap (505) 827-7131 950 Street In REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. RCRA Exempt: No. 4. Generator B). Source Main Verbal Approval Received: Yes: No. Source Main 2. Management Facility Destination Source Main Source Main Source Main 3. Address of Facility Operator Source Main Source Main Source Main 4. Location of Material (Street Address or UKSTR) 3250 Sputh Staff Duck Road Source Main 9. Circle One: A. All requests for approval to accept offield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. 8. All requests for approval to accept one-exempt wastes must be accompanied by a certification and waste to phone wastes and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. A. It requests for approval to accept one-exempt wastes must be accompanied by accessary chemical analysis to PHOVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporter must cer | trict II - (505) 748-1283 | als and Natural Resource | | Form C-138
Originated 4/18/95 |
| 0 to Broken Read (303) 627-7131 950-26 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. RCRA Exempt: Non-Exempt: 4. Generator B) SonvCLM Verbal Approval Received: Yes No Si 5. Originating Site SUdde Pit 2. Management Facility Destination of Work (1, Construction of a state (1, Construction of Material (Street Address of USTR) 5. Originating Site SUdde Pit 3. Address of Facility Operator SFH & US HUNGOUT Construction of Material (Street Address of USTR) 5. State (1, Construction of Material (Street Address of USTR) 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. 8. All requests for approval to accept oilfield exempt wastes must be accompanied by a certification and waste from the Generator; one certificate per job. 9. Circle One: A. All requests for approval to accept one-overnpt wastes must be accompanied by a certification and waste from the Generator; one certificate per job. 9. All transporter must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: WASAN Date of SIDDS Verbale Management Edition of the period of the haul) oy SignATURE Mark Add Content and the Generator's certification of the aperiod of the haul) oy | esia, NM 88210 | | | Submit Original |
| 950-6 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. RCRA Exempt: A. Generator B.) Survala Verbal Approval Received: Yes No X 5. Originating Site Sludge Ret 2. Management Facility Destination Guidel (Constitution) Survala 6. Transporter BAL 3. Address of Facility Operator GALMELY (Constitution) Site (Constitution) Site (Constitution) Guidel (Constitution) 3. Address of Facility Operator GALMELY (Constitution) Site (Constitution) Site (Constitution) Galmely (Constitution) 3. Address of Facility Operator GALMELY (Constitution) Site (Constitution) Site (Constitution) Galmely (Constitution) 4. Increases for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator's certification of origin. No waste classified hazardous by Isting or testing will be approved. All requests for approval to accept oilfield 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 Isting or testing will be approved. All requests for approval to accept oilfield 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 Istimg or testing will be approved. <td>0 Rio Brazos Road</td> <td></td> <td>5</td> <td>to appropriate</td> | 0 Rio Brazos Road | | 5 | to appropriate |
| REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. RCRA Exempt: Non-Exempt: 4. Generator B. SUNCLA. Verbal Approval Received: Yes No. 5. Originating Site Sludge Rit 2. Management Facility Destination Gar bit with Conduction 5. Transporter BCL 3. Address of Facility Operator 5716 USH With Cold 8. State MM 4. Location of Material (Street Address or USTR) 3. State MM 9. Citcle One: A. All requests for approval to accept olifield exempt wastes must be accompanied by a certification of waste from the Generator: one certificate per job. B. All requests for approval to accept olifield exempt wastes must be accompanied by a certification of waste from the Generator: one certificate per job. B. All requests for approval to accept olifield exempt wastes must be accompanied by a certification of waste from the Generator: one certificate per job. B. All requests for approval to accept olifield 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 ilisting or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: WASH DAY SOLIDS Continuation Guide Solid Soli | cc, NM 87410
t <u>rict IV</u> - (505) 827-7131 | (505) 827-7151 | 95026 | District Office |
| 1. RCRA Exempt: Non-Exempt: Non-Exempt: A. GeneratorB) Surveys 2. Management Facility Destination Sort State Sort State Sort State Sort State 3. Address of Facility Destination Sort State Sort State Sort State Sort State 3. Address of Facility Destination Sort State Sort State Sort State Sort State 3. Address of Facility Destination Sort State Sort State Sort State Sort State 7. Location of Material (Street Address or USTR) Sort State Sort State Sort State Sort State 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. State Material BRIEF DESCRIPTION OF MATERIAL: State Originating State State Material Wash bary Solid State State Originating State State Originating State Signature Cyc Known volume (to | REQUEST FOR | R APPROVAL TO ACCEPT | | |
| Verbal Approval Received: Yes No 5. Originating Site Studge Ref. 2. Management Facility Destination Griebule, Conducture 6. Transporter BAC 3. Address of Facility Operator STHe USH We | / | | 215 | |
| 2. Management Facility Destination (12/10/01/2007) 6. Transporter BA
3. Address of Facility Operator (5776) (12/10/01/2007) 6. Transporter BA
3. Address of Facility Operator (5776) (12/10/01/2007) 6. Transporter BA
7. Location of Material (Street Address or USTR) (12/2007) | · · · · · · · · · · · · · · · · · · · | \checkmark | | Idao P.F |
| 3. Address of Facility Operator 5716 u.S.H.W. (64 8740)
3. Location of Material (Street Address or ULSTR)
4. Location of Material (Street Address or ULSTR)
5. 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 oilfield exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-heardous 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:
Washe Management-Reduced allower (to be entered by the operator at the end of the hau) cy
SIGNATURE Management-Reduced Agent
TYPE OR PRINT NAME LANDAR TITLE: En uno (Engr. Date: 1/25/03)
ATE: 1/25/03. | Enviro | tech Soil Remediatio | | 2 mg mg |
| 7. Location of Material (Street Address or ULSTR) \$350 Sputh Stall Rule Road farmington, (IM 87410) 9. Circle One: A. All requests for approval to accept olifield 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: WAAD Day Solid S Continuation TCLF date d 3115102 Restinated Volume cy: Known Volume (to be entered by the operator athie-end of the haul) cy: Known Volume (to be entered by the operator athie-end of the haul) cy: SIGNATURE MAMAC MAMAC Waste Management Hedility/uthorized Agent TTTLE: Converting the construction of the haul) cy: TYPE OR PRINT NAME: And rea: MCKSD TELEPHONE NO. (505) [a32 - D[a] 15 TYPE OR PRINT NAME: And rea: MCKSD TELEPHONE NO. (505) [a32 - D[a] 15 approved BY: Hermin Material Mathematical Material Mathematical Material Material Material Material Mathematerial Material Material Material Material Material M | | S. HWY 64 | 8. State M | |
| 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 isting or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: WAAN DAY SOLID Continuation TCLP dated 31/5/D2 Reaffurnation dtacend. Estimated Volume (to be entered by the operator at the end of the haul) cy signature waste Management Editing Authorized Agent TTTLE: CONVERTING DATE: 1/3/D3 Verse Management Editing Authorized Agent TTTLE: En wro/Engr Date: 1/25/03 | | | | Road . |
| Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Wash bay Solids Continuation TCUT date of 31/5102: Restmated Volume estimated Volume ov Known Volume (to be entered by the operator at the bad) version of the hault of the hault Waste Managament Edding/Autonized/Agent rtype or PRINT NAME: (This space for State Use) APPROVED BY: APPROVED BY: | 9. <u>Circle One</u> : | | , <u> </u> | |
| 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 isting or testing will be approved. | | lfield exempt wastes will be acc | companied by a certification of | waste from the |
| All transporters must certify the wastes delivered are only those consigned for transport.
BRIEF DESCRIPTION OF MATERIAL:
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TCUP dated 31/5/D2 - Reaffurnation attached.
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PROVE the material is not-hazardous | on-exempt wastes must be acc
s and the Generator's certificati | companied by necessary chem
on of origin. No waste classifie | nical analysis to
d hazardous by |
| Wash bay solids continuation
TCLP dated 3115102 = Reaffirmation attached. | | livered are only those consigne | ed for transport. | |
| Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy
SIGNATURE | BRIEF DESCRIPTION OF MATERIAL: | | | |
| Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy
SIGNATURE: MANAR A AREA TITLE: COWN Address DATE: 1/3/03
Waste Management EdulityAuthorized Agent
TYPE OR PRINT NAME: AND ACKSON TELEPHONE NO. 605) (032 - 01015
(This space for State Use)
APPROVED BY: Meny Tout TITLE: Enviro/Engr DATE: 1/28/03 | Wash bay solid
TCLP dated | S Continuati
3115102 - Reaf | | ached. |
| SIGNATURE: MARLAR, MASON TITLE: Enviro Admin. DATE: 1/3/03
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: LANDRA ACKSON TELEPHONE NO. 605) 1032 - 01015 | | | OIL COAS. DIV. | |
| SIGNATURE: /// Waste Management Eacility Authorized Agent
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| APPROVED BY Maty 222, TITLE: Environmental Geologist DATE: 1/30/03 | APPROVED BY: Deny ton | | | 128/03 |
| | APPROVED BY hat the | TITLE: 25011000 | and Goologist DATE: 1 | 130/03 |



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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIG BRAZOB ROAD AZTEC, NEW MEXICO 87410 (608) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: $2 + 5 + 4 = 4 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 +$ | 2. Destination Name:
Envirotech Soil Remediation Facility |
|--|--|
| B) Strucco
3250 Southside River Road | Landfarm #2 |
| Farminatan NM 87401 | Hilltop, New Mexico |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): |
| wash bary | |
| Attach list of originating sites as appropriate
4. Source and Description of Waste | |
| | tinuation |
| Wash bay solids con | |
| | |
| | |
| 1. Dale HARRison | representative for: |
| (Print Name) | |
| 13. J. Se Rulice 5
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 | |
| EXEMPT oilfield waste NON-EXEM analysis or | PT oilfield waste which is non-hazardous by characteristic by product identification |
| and that nothing has been added to the exempt or nor | a-exempt non-hazardous waste defined above. |
| For NON-EXEMPT waste the following documentat | ion is attached (check appropriate items): |
| MSDS Information | Other (description): |
| 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): | |
| Title: Product Supervisor | |
| Date: 1- 3-03 | |

5053275766 £00/200°d L27T#



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 TCL | P 3/15/02 |
|---------------|----------------------|
| Printed Nam | ie Dale Harrison |
| Title / Agend | y Product Supervisor |
| Address | 3250 Southside River |
| | Road, Farmington |
| Signature | pale Han |
| Date | 1-3-03 |
| | |
| | |

#1427 P.003/003

5053275766

BJ5 FARMINGTON

JAN.03'2003 07:41 RECEIVED FROM: 5056321865 #1426-003 JAN. 03'2003 08:19 5053275766

PRACTICAL SOLUTIONS FOR A DEVICER TOMORROW

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 |

| | ······································ | Det. | Regulatory |
|-----------|--|--------|------------|
| ·. | Concentration | Limit | Level |
| Parameter | (mg/L) | (mg/L) | (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.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

mistin Walter Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 |

| QA/QC Accep | tance Criteria | Parameter | Percent Recovery |
|-------------|-------------------------|---|-----------------------|
| | | Fluorobenzene | 100% |
| | | 1,4-difluorobenzene | 100% |
| | | 4-bromochlorobenzene | 100% |
| References: | Method 1311, Toxicity C | Characteristic Leaching Procedure, SW-8 | 46, USEPA, July 1992. |
| | Method 5030, Purge-an | d-Trap, SW-846, USEPA, July 1992. | |
| | Method 8010, Halogena | ited Volatile Organic, SW-846, USEPA, S | Sept. 1994. |
| · · | Method 8020, Aromatic | Volatile Organics, SW-846, USEPA, Sep | ot. 1994. |
| Note: | Regulatory Limits based | on 40 CFR part 261 Subpart C section 2 | 261.24, July 1, 1992. |
| Comments: | 3250 Southside Riv | ver Road, Farmington, NM 87401 | |

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n Walter mister Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

| Client: | BJ Services | Project #: | 95026-001 |
|-------------------------------|-------------------------------|---|-----------|
| Sample ID: | Wash Bay Sludge | Date Reported: | 03-19-02 |
| Lab ID#: | 22302 | Date Sampled: | 03-15-02 |
| Sample Matrix: | Sludge | Date Received: | 03-15-02 |
| Preservative: | Cool | Date Analyzed: | 03-18-02 |
| Condition: | Cool and Intact | Chain of Custody: | 9853 |
| Parameter | Result | | × |
| | | | |
| | Negative | | |
| CORROSIVITY: | Negative | pH = 7.47 | |
| REACTIVITY: | Negative | | |
| RCRA Hazardous Waste Criteria | | | |
| Parameter | Hazardous Waste Criterior | | |
| IGNITABILITY: | | as defined by 40 CFR, Subpart C, Sec. 261
direct contact with flame or flash point < 60° | |
| CORROSIVITY: | | y as defined by 40 CFR, Subpart C, Sec. 26
to 2.0 or pH greater than or equal to 12.5) | 1.22. |
| REACTIVITY: | | as defined by 40 CFR, Subpart C, Sec. 261 | 23. |
| : | (i.e. Violent reaction with w | gases at STP with pH between 2.0 and 12.5, | tion |
| Reference: | 40 CFR part 261 Subpart C | Sections 261.21 - 261.23, July 1, 1992. | • |
| Comments: | 3250 Southside River | Road, Farmington, NM 87401. | |

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Walters Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 |

| QA/QC-Acceptance Criteria | | Parameter | Percent Recovery | |
|---------------------------|------------------------|--|------------------|--|
| | | 2-fluorobiphenyl | 99% | |
| References: | Method 3510, Separate | 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 base | ased on 40 CFR part 261 Subpart C section 261.24, July 1, 1992. | | |
| Comments: | 3250 Southside Ri | ver Rd., Farmington, NM 874 | 01. | |
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Envirotech Labs

PEACTICAL SOLUTIONS FOR A BETTLER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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

PRACTICAL SOLUTIONS FOR A BEITHER TOMORROW

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

| Client: | QA/QC | Project #: | N/A |
|----------------------|------------------|---------------------|------------|
| Sample ID: | Laboratory Blank | Date Reported: | 03-20-02 |
| 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.

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Walter 'Wister Review

PRACTICAL SOLUTIONS FOR A BETTLER TOMORROW

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

| Client: | QA/QC | Project #: | N/A |
|----------------------|---------------|---------------------|------------|
| Sample ID: | Method Blank | Date Reported: | 03-20-02 |
| 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 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 |
| | | | |

ND - Parameter not detected at the stated detection limit.

ND

1,4-Dichlorobenzene

| QA/QC Acceptance Criteria | Parameter | Percent Recovery |
|---------------------------|----------------------|------------------|
| | Fluorobenzene | 99% |
| | 1,4-difluorobenzene | 98% |
| | 4-bromochlorobenzene | 98% |

0.0002

| 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. |
| Noto | Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992. |
| Note: | Regulatory Limits based on 40 Cr R part 201 Subpart C Section 201.24, July 1, 1992. |

Comments:

QA/QC for sample 22302.

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PRACTICAL SOLUTIONS FOR A BETTIER TOMORIOW

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.

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PRACEMICAL SOLUTIONS FOR A EFIMER TOMORROW

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

| Client: | QA/QC | Project #: | N/A |
|---------------------|--------------|-----------------|----------|
| Sample ID: | Matrix Spike | Date Reported: | 03-20-02 |
| 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 |

| | | | 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.

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PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW

EPA METHOD 8040 PHENOLS

Quality Assurance Report Laboratory Blank

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| 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 |
| | | | |

ND - Parameter not detected at the stated detection limit.

2,4,5-Trichlorophenol

Pentachlorophenol

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

ND

ND

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.

0.020

0.020

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

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

Note:

Comments: QA/QC for sample 22302.

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

| Client: | QA/QC | Project #: | N/A |
|--------------------|---------------|---------------------|------------------|
| Sample ID: | Method Blank | Date Reported: | 03-21-02 |
| 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 |

| Surrogate Recov | eries: Parameter | | Percent Recovery |
|-----------------|--|-----------------------------|----------------------------|
| • | 2-Fluorophenol
2,4,6-Tribromop | henol | 98%
99% |
| References: | Method 1311, Toxicity Characteristic Lea
Waste, SW-846, USEPA, July 1992. | aching Procedure Test Me | thods for Evaluating Solid |
| | Method 3510, Separatory Funnel Liquid-
Waste, SW-846, USEPA, July 1992. | Liquid Extraction, Test Me | thods for Evaluating Solid |
| | Method 8040, Phenols, Test Methods fo | r Evaluating Solid Waste, S | SW-846, USEPA, Sept. 1986. |
| Note: | Regulatory Limits based on 40 CFR part | 261 subpart C section 26 | 1.24, July 1, 1992. |
| Comments: | QA/QC for sample 22302. | | |
| Analyst | C. apara | Review | m Walten |

PRACTICAL SOLUTIONS FOR A ELEPTIER TOMORROW

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 |
| | | | |

| | Sample
Result | Duplicate
Result | Detection
Limit | Percent |
|-----------------------|------------------|---------------------|--------------------|------------|
| Parameter | (mg/L) | (mg/L) | (mg/L) | 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% |

| QA/QC Accep | otance Criteria: | Parameter | Maximum Difference |
|-------------|---|--|---------------------------------|
| | | 8040 Compounds | 30.0% |
| References: | Method 1311, Toxicity C
Waste, SW-846, USEPA | Characteristic Leaching Procedure Test
A, July 1992. | Methods for Evaluating Solid |
| | Method 3510, Separato
Waste, SW-846, USEP/ | ry Funnel Liquid-Liquid Extraction, Tes
A, July 1992. | t Methods for Evaluating Solid |
| | Method 8040, Phenols, | Test Methods for Evaluating Solid Was | ste, SW-846, USEPA, Sept. 1986. |
| Note: | Regulatory Limits based | l on 40 CFR part 261 subpart C sectior | n 261.24, July 1, 1992. |
| Comments: | QA/QC for sample | 22302. | |
| Analyst | - C. Office | | un Walter |

PRACTICAL SOLUTIONS FOR A BENTER TOMORROW

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

| Client: | QA/QC | Project #: | N/A |
|--------------------|------------------|---------------------|----------|
| Sample ID: | Laboratory Blank | Date Reported: | 03-21-02 |
| 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 |
| | | | |

| | | 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 |

| QA/QC Acceptance Criteria | | Parameter | Percent Recovery |
|---------------------------|---|------------------------------------|------------------|
| | | 2-fluorobiphenyl | 96% |
| References: | Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 19 | | |
| | | natics and Cyclic Ketones, SW-846, | • |
| Note: | Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992. | | |
| | | | |
| Comments: | QA/QC for sample | 22302. | |

Analyst

hist Review

PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW

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

| Client: | QA/QC | Project #: | N/A |
|--------------------|-----------------|---------------------|----------|
| Sample ID: | Method Blank | Date Reported: | 03-21-02 |
| 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: | W-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 | I on 40 CFR part 261 Subpart C sect | tion 261.24, July 1, 1992. | | | | |

Comments:

QA/QC for sample 22302.

Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

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

0.0%

0.0%

0.020

0.020

ND

ND

| 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 Reque | sted: | 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 | |

ND - Parameter not detected at the stated detection limit.

| QA/QC Acceptance Criteria | | Parameter | Maximum Difference | | |
|---------------------------|-------------------------|--|--------------------------|--|--|
| | | 8090 Compounds | 30% | | |
| References: | Method 1311, Toxicity C | Characteristic Leaching Procedure, S | W-846, USEPA, July 1992. | | |
| | Method 3510, Separato | ry Funnel Liquid-Liquid Extraction, S\ | N-846, USEPA, July 1992. | | |
| | Method 8090, Nitroaron | natics and Cyclic Ketones, SW-846, L | JSEPA, Sept. 1986. | | |
| Note: | Regulatory Limits based | l on 40 CFR part 261 Subpart C secti | on 261.24, July 1, 1992. | | |
| | | | | | |
| | | | | | |

Comments:

2,4-Dinitrotoluene

HexachloroBenzene

QA/QC for sample 22302.

ND

ND

Jalles Review

PRACTICAL SOLUTIONS FOR A ELETTER TOMORIOW

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 Rep | orted: | | 03-19-02 | |
| Laboratory Number: | | 22302 | | Date San | npled: | | N/A | |
| Sample Matrix: | | TCLP Extra | ict | Date Rec | eived: | | N/A | |
| Analysis Requested: | | TCLP Meta | ls | Date Ana | lyzed: | | 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 | 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 | 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.

Ánalvst

Review

| AMETERS | Remarks | | | | | - | | Date Time | S11 19-51-5 | | Sample Receipt | Y N/A | Received Intact | Cool - Ice/Blue Ice |
|--|--------------------------------|---|------------------------------------|--|--|---|--|------------------------------------|-------------|------------------------------|----------------|-------|---|---------------------|
| River Rd
Nev 82451 | o .
ainers | | Shage 1. | | | | | Date Time Received by: (Signature) | | Received by: (Signature) | EDVIROTECH INC | | 5796 U.S. Highway 64
Farmington New Mexico 87401 | (505) 632-0615 |
| Client / Project Location
BJ Servi (ces) 3250 South sed | HARLAN W. Brows Client No. 750 | Sample No./ Sample Sample Lab Number
Identification Date Time Lab Number | Wash Bay Sludge 3.15.02 Bi35 22302 | | | | | Relinquished by: (Signature) | (Signature) | Relinquished by: (Signature) | | | | |

| istrict I - (505) 393-6161 New Mexico O. Box 1980 Energy Minerals and Natural Resource obbs. NM 88241-1980 Energy Minerals and Natural Resource istrict II - (505) 748-1283 Oil Conservation Division 1 S. First 2040 South Pacheco Street tesia. NM 88210 Santa Fe, New Mexico 87505 'trict III - (505) 334-6178 Santa Fe, New Mexico 87505 Nio Brazos Road (505) 827-7131 | on
Submit Original |
|---|---|
| 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 & Son s |
| 3. Address of Facility Operator 5796 US Highway 64
Farmington, NM 87401 | 8. State Human Muercico |
| 7. Location of Material (Street Address or ULSTR) | "A" Sac 18, T3IN, RGW |
| 9. <u>Circle One</u> : | SAN Juan County, Nby |
| 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.
All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:
Lube oil contaminated Soil | n of origin. No waste classified hazardous by |
| Estimated Volume CV Known Volume (to be entered by the ope | rator at the end of the haul) cy |
| SIGNATURE: Harlan M. Brown TITLE: Landfarm Ma
Waste Management FacilityAuthorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TELE | anager DATE: 12.27.02 EPHONE NO. 505-632-0615 |
| (This space for State Use)
APPROVED BY: Jemp Ferry TITLE: Enviro/
Man bil | Figr DATE: 01/02/03 |
| APPROVED BY: Montun Jhy TITLE: Znuironme | DATE: 01/10/03 |



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION ACTEC DISTRICT OFFICE 1000 RIO BRAZOS ROLD ACTEC, NEW MEXICO STILLO (504) 234-6175 FAE (505)233-0-070

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address:
Compressor systems INC.
P.O. Box 1886
Bloom Field M.M. 87413 | 2. Destination Name:
ENUIROTECH INC.
LANDFARM#Z, Hilltop NAJ
5796 US. HWY GP. Formington, Nad | | | | | | |
|--|---|--|--|--|--|--|--|
| 3, Originating Site (name):
NEBU 438 (wit # 404408)
Attach list of originating sites as appropriate | Location of the Waste (Street address &/or ULSTR);
1210' FNK 1245' FEL
Section 18 Township 31N -R-GW
SGN Jum County M,M. | | | | | | |
| 4. Source and Description of Waste | | | | | | | |
| O Ring suptured on compressor vil. | filter which caused oil to | | | | | | |
| Talan (Govardar | representative for: | | | | | | |
| 1. Johnny Gonzales | | | | | | | |
| <u>COMPLESSOR SYSTEMS THC.</u>
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 ollfield 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 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 Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

| | | | (| 4 | |
|---------|-----------------|-------|-------|----------|--|
| Name (C | riginal Signatu | ire): | nes L |)males | |
| | | | | 0 | |
| litle: | aperintene | lont | | . | |
| | | | | | |

Date: 12-26-02

May. 23 2001 08:16AM P3

| F.ILE No.595 12/27 '02 AM 09:53 | ID:COMPRESSOR SY | STEMS INC. FAX: | 15056328 | 985 | PAGE 2 |
|--|-------------------------------|--|------------------------------------|---------------------------------------|-------------------------------------|
| 01517165 1
625 ?!. French Dr., Hubbs, NM 88240 | State of 1 | New Mexico
and Natural Resource | ٩ | | Form C-14 |
| <u>listrict II</u>
301 W. Grand Avenue, Artesia, NM 88210 | | vation Division | -0 | | Rovised March 17, 199 |
| l <u>istrict III</u>
2001 Rio Bruzon Road, Aztec, NM 87410 | | Submit 2 Copies to appropriat
District Office in accordance | | | |
| District IV
220 S. St. Francis Dr., Sunta Fe, NM 87505 | | St. Francis Dr. | | | with Rule 116 on bac
side of for |
| | | , NM 87505 | | | |
| Rele | ase Notification | | e Action | | |
| Name of Company and | | OPERATOR
Contact Justin | Welter | | l Report 🔲 Final Repo |
| Name of Company Compresser Syste
Address P.O. Kox 1886 Bloom Gel | | | -6735 | | |
| Facility Name | | Facility Type well | | Compre | ssian |
| Surface Owner | Mineral Owner | | | · | IO. NEBU 438 |
| | LOCATION | OF RELEASE | | _ | |
| Unit Letter Section Township Range | Feet from the North/ | outh Line Feet from | the East/W | est Line | County . |
| 404408 18 T3IN GW | 121 | Ó | 171 | 15 | SanJuan |
| | | OF RELEASE | | | |
| Type of Release USort Complessor | 01 | Volume of Rolease | igeals | Volume F | |
| Source of Release | | Date and Hour of Occu | 11Tence 12-23 | Date and | Hour of Discovery 12-23-02 |
| Was Immediate Notice Given? | No 🗌 Not Required | If YES, To Whom?
Phillip Ray | 6 10 10 | | @ 10 Am |
| By Whom? | | | 1030 AN | <u> </u> | |
| Was a Watercourse Reached? | No | If YES, Volume Impac | ting the Wate | rcourse. | |
| If a Watercourse was Impacted, Describe Fully. | | | | | |
| | | | | | |
| | | | | | |
| Describe Cause of Problem and Remedial Action | Takan " | | | | |
| | | DI AL | 1 Cilhors | | |
| Ruptured oring on | tiller lack. | reproced an | +117015 | - | |
| | | | | | |
| Describe Area Affected and Cleanup Action Tak | cen.* | | | | |
| EAST SIDE OF SKIDL 20 | | reep. Paul. | - Son's | will | pick up |
| EAST SIDE OF SICIA ZC
contaminated soil and | will deliver | d to excitot | ech tor | mington | 1
1 |
| I hereby certify that the information given above | | | | • | |
| regulations all operators are required to report at | nd/or file certain release no | otifications and perform o | corrective acti | ions for rele | eases which may endanger |
| public health or the environment. The acceptance | e of a C-141 report by the | NMOCD marked as "Fi | nal Report" d | oes not reli | eve the operator of liability |
| should their operations have failed to adequately
or the environment. In addition, NMOCD accept | tance of a C-141 report d | e contamination that pose | e a inreat to gr
or of responsi | ound water
bility for c | , surface water, human health |
| federal, state, or local laws and/or regulations. | | | | | · |
| | | OILC | UNSERV | ATION | DIVISION |
| Signature: | | | | | |
| Printed Name: | | Approved by District Su | pervisor: | ····· | |
| Title: | | Approval Date: | | Expiration . | Date: |
| Date: Phone | | Conditions of Approval: | | · · · · · · · · · · · · · · · · · · · | Attached |
| | | Criteriono or reppiovan | | | |

Attach Additional Sheets If Necessary

• ...

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envirotechmemo/fax

Martyne Kieling to: company: 505-476-3462 fax #: MSDS for Screw Compressor Oul re: 1/10/03 date: (including cover page) pages: SI-NEBUL43 project: CC: comments... Martyne-Alere's the full MSDS you requested Hope you have a great day!

from the desk of.

e n virotech inc. 5796 us highway 64 farmington, n. m. 87401 505 632 0615 505 632 1865 fax

this information is intended for the individual above and is confidential. if you have received this facsimile in error, please call the number listed above. thank you



2/ 8

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2

PAGE

Material Safety Data Sheet

Page 1 of 7

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 011 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 | ACENCY/TYPE | | | | | | |
|---|----------------|---|-------------------------------------|--|--|--|--|--|--|
| HYDROTREATED DIST., HVY PA
Chemical Name: DISTILLATES,
CAS64742547 > | , HYDROTREATED | HEAVY PARAFFINIC
5 mg/m3 (mist)
10 mg/m3 (mist)
5 mg/m3 (mist) | ACGIH TWA
ACGIH STEL
OSHA PEL | | | | | | |
| ADDITIVES < | 20.00% | • | | | | | | | |
| COMPOSITION COMMENT:
All the components of this material are on the Toxic Substances Control | | | | | | | | | |
| Revision Number: 0 F | levision Date: | 10/25/97 MSD | 5 Number: 006852 | | | | | | |

X-DOS051 (06-89)

3/ 8 PHGE 3

CHEVRON HDAX NG Screw Compressor 011

Page 2 of 7

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 BYE: 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

X-005021 (01-89)

CHEVRON HDAX NG Screw Compressor Oil

Page 3 of 7

;5056321865

combustible.
FLAMMABLE FROPERTIES:
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 eve protection is normally required. Where splashing is

Revision Number: 0

Revision Date: 10/25/97 MSDs

MSDS Number: 006852

X-005021 (01-89)

8

CHEVRON HDAX NG Screw Compressor Oil

Page 4 of 7

:5056321865

8

5/ 5

PAGE

possible, wear safety glasses with side shields as a good safety practice. **SRIN 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: 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

Revision Number: 0

- - - -

Revision Date: 10/25/97

MSDS Number: 006852

X-005(121 (01-89)

CHEVRON HDAX NG Screw Compressor Oil

Page 5 of 7

;5056321865

PAGE [#]6

6/ 8

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)

1-10-03; 8:09AM;ENVIROTECH ;5056321865 FILE NO.536 01/09 '03 PT 02:59 IU:CUTPRESSUR SYSTEMS INC. FAX:15056328985

PAGE 7

8

CHEVRON HDAX NG Screw Compressor Oil

Page 6 of 7



X-D0S021 (01-89)

CHEVRON HDAX NG Screw Compressor 011

Page 7 of 7

8/

8

PAGE

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

| 1 | TLV | _ | Threshold Limit Value | twa | - | Time Weighted Average |
|---|-----|---|---------------------------|-----|---|----------------------------------|
| | | | Short-term Exposure Limit | TPQ | - | Threshold Planning Quantity |
| | | | Reportable Quantity | Pel | - | Permissible Exposure Limit |
| | | | Ceiling Limit | CAS | - | Chemical Abstract Service Number |
| • | | | Appendix A Categories | () | - | Change Has Been Proposed |
| 1 | NDA | | No Data Available | NA | - | Not Applicable |

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 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.

Revision Number: 0

Revision Date: 10/25/97

MSDS Number: 006852

X-00S021 (01-89)

| istrict I - (505) 393-6161
O. 50x 1980
obis, NM 88241-1980
Energy Minerals and Natural Resource
Satrict II - (505) 748-1283
I S. First
Tesia, NM 88210
'trict III - (505) 334-6178
New Mexico
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131
S. First
JAN 2003
JAN 20 | DN
Submit Original | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| REQUEST FOR APPROVAL TO ACCEPT | SOLID WASTE | | | | | | | |
| 1. RCRA Exempt: | 4. Generator Coastal Chamical | | | | | | | |
| Verbal Approval Received: Yes 🔲 No 🔄 | 5. Originating Site Various Localions | | | | | | | |
| 2. Management Facility Destination Envirotech Soil Remedia.
Facility Landfarm #2 | 6. Transporter Enviro Lech | | | | | | | |
| 3. Address of Facility Operator 5796 US Highway 64
Farmington, NM 87401 | 8. State New Majorico
1130 Majorson Lone | | | | | | | |
| 7. Location of Material (Street Address or ULSTR) | 1130 Maaison Lone
Farming Long Del. | | | | | | | |
| 9. <u>Circle One</u> : | U | | | | | | | |
| A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. | | | | | | | | |
| All transporters must certify the wastes delivered are only those consigned for transport. | | | | | | | | |
| BRIEF DESCRIPTION OF MATERIAL:
Soil contentiated with neur Inbricouts From spills, Leaks
and upstits at various Locations
Complete list of MSDS provided with 7.15.02 submitted. | | | | | | | | |
| | | | | | | | | |
| Estimated Volume cy Known Volume (to be entered by the open | rator at the end of the heul) | | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| SIGNATURE: Waste Management FacilityAuthorized Agent TITLE: Landfarm Ma | | | | | | | | |
| TYPE OR PRINT NAME: Harlan M. Brown TELE | EPHONE NO 632-0615 | | | | | | | |
| (This space for State Use) | | | | | | | | |
| APPROVED BY: Demy Tam TITLE: Enviro/ | | | | | | | | |
| APPROVED BY: Muntin Mily TITLE: Environment | W Godinist DATE: 01/08/03 | | | | | | | |



١,

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

والأسيب والهاديا والعاجرين والعوجري سراج مداد الاستها

GARY E. JOHNSON GOVERNOR OL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO B7410 (505) 334-6178 Par (305)334-6170

, 500002.000

JENNIFER A. SALISBURY CABINET SECRETARY

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 | | | | | | | |
| Farmington NM 87401 | ntitup, new mexico | | | | | | | |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): | | | | | | | |
| | | | | | | | | |
| Concert Collice 1130 11000150n Ln | | | | | | | | |
| Coastal Chemical Colle 1130 Modison Ln
Farmington, NM 87401 | | | | | | | | |
| Attach list of originating sites as appropriate | | | | | | | | |
| 4. Source and Description of Waste | | | | | | | | |
| Dirt, motor ail (virgin) picked up From various locations | | | | | | | | |
| | | | | | | | | |
| · · | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| AAN T | | | | | | | | |
| I, (Print Name) | representative for: | | | | | | | |
| Coastal Chemical Costle | 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 appropriate classification) | | | | | | | | |
| | ATT allfield waste which is non herardous by observatoristic | | | | | | | |
| EXEMPT oilfield waste NON-EXEM | APT 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 | | | | | | | | |
| | So the Contraction | | | | | | | |
| <u> </u> | DS - Provided in previous Submittel's (7.15.02) | | | | | | | |
| | | | | | | | | |
| 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): These farm | n | | | | | | | |
| | | | | | | | | |
| Title: Facility Manager | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | Montyhe Kieling | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Intrict I - (505) 393-6161 New Mexico O. Box 1980 New Mexico | RECEIVED Form C-138 | | | | | | | |
| obbs, NM 88241-1980 Energy Minerals and Natural Resource | | | | | | | | |
| 1 S. First | | | | | | | | |
| - <u>trict III</u> - (505) 334-6178 Santa Fe, New Mexico 8750. | | | | | | | | |
| Rio Brazos Road (505) 827-7131 | Env. JN: 92182 District Office | | | | | | | |
| <u>strict IV</u> - (505) 827-7131 | | | | | | | | |
| REQUEST FOR APPROVAL TO ACCEPT | | | | | | | | |
| 1. RCRA Exempt: 🛄 Non-Exempt: 🔀 | 4. Generator Wastan Grs
Resources | | | | | | | |
| Verbal Approval Received: Yes 🛄 No 🔀 | 5. Originating Site 4 Corners Caup. Statuon | | | | | | | |
| 2. Management Facility Destination Envirotech Soil Remedia.
Facility Landfarm #2 | 6. Transporter TBK | | | | | | | |
| 3. Address of Facility Operator 5796 US Highway 64
Farmington, NM 87401 | 8. State 4TAH-NM. (NAWH, Rez) | | | | | | | |
| 7. Location of Material (Street Address or ULSTR) | JEK4, See 19, T385, RZ4E | | | | | | | |
| 9. <u>Circle One</u> : | SAN Juan County, Ut. | | | | | | | |
| A. All requests for approval to accept olifield exempt wastes will be acc | ompanied by a certification of waste from the | | | | | | | |
| Generator; one certificate per job.
B. All requests for approval to accept non-exempt wastes must be acc | ompanied by necessary chemical analysis to | | | | | | | |
| 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 for transport. | | | | | | | | |
| BRIEF DESCRIPTION OF MATERIAL: | | | | | | | | |
| Lube oil conteninated spil a | the by councers Comp. Station | | | | | | | |
| | 19 20 21 20 × 10 | | | | | | | |
| | ETT 18 19 20 21 22 37 | | | | | | | |
| | NOV 2002 | | | | | | | |
| | | | | | | | | |
| · · · · | ORL CONS. DIV. | | | | | | | |
| | | | | | | | | |
| | OS + Elix | | | | | | | |
| Estimated Volume cy Known Volume (to be entered by the ope | erator at the end of the haul) cy | | | | | | | |
| SIGNATURE: Harborn Brown TITLE. Landfarm M | lanager | | | | | | | |
| Waste Management FacilityAuthorized Agent | 505-642-0615 | | | | | | | |
| TYPE OR PRINT NAME: Harlan M. Brown TEL | EPHONE NO I | | | | | | | |
| | | | | | | | | |
| (This space for State Use) | ¥ | | | | | | | |
| | | | | | | | | |
| APPROVED BY: Derry Levy TITLE: Envirole | DATE: 11/01/02 | | | | | | | |
| APPROVED BY: later the TITLE: Invironme | 116 hours 11/2 ha | | | | | | | |
| METHOVED DT. CONTRACTOR AND MILE: Chulronmy | mm(120)09/7 UAIE: 1/100/02 | | | | | | | |
| | | | | | | | | |

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AETEO DISTRICT DIFICE Idea Rio Orazos Road Aztec, New Mexico Groid (945) 334-0170 Par (845)334-6170

GARY E. JOHNSON GOVERNOR

JENNIPER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: | 2. Destination Name: | | | | | |
|---|---|--|--|--|--|--|
| Western Gas Resources | Envirotech Inc. | | | | | |
| P.U. Boz70 99 Rd 6500 | Soil Remediation Remediation Facility | | | | | |
| Kirtland, N.M. 87417 | Landfarm #2, Hilltop, New Merico | | | | | |
| | 5796 118 Hwy 64 Farmington NM 87401 | | | | | |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR); | | | | | |
| 4 CORNERS COMPRESSOR STAT. | | | | | | |
| Alkali CANYON IT miles | EAST of BLANDING UT | | | | | |
| Attech Bat of originating sites as appropriate | | | | | | |
| 4. Source and Description of Weste | | | | | | |
| oil "stained soil fa | A 0000 01 | | | | | |
| | on COMPRESSOR SITE | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 1. ARLYN THORSON
(Print Name) | representative for: | | | | | |
| Print Name) | icprosentative for. | | | | | |
| | do hereby certify that, | | | | | |
| | | | | | | |
| according to the Resource Conservation and Recove | ry Act (RCRA) and Environmental Protection Agency's July, | | | | | |
| according to the Resource Conservation and Recove
1988, regulatory determination, the above described | do hereby certiny that,
ry Act (RCRA) and Environmental Protection Agency's July,
waste is: (Check appropriate classification) | | | | | |
| 1988, regulatory determination, the above described | waste is: (Check eppropilate cleasification) | | | | | |
| 1988, regulatory determination, the above described EXEMPT olifield waste X NON-EXEM | waste is: (Check eppropriate classification)
NPT oilfield waste which is non-hazardous by characteristic | | | | | |
| 1988, regulatory determination, the above described EXEMPT oilifield waste X NON-EXEM | waste is: (Check eppropilate cleasification) | | | | | |
| 1988, regulatory determination, the above describedEXEMPT oilifield waste | waste is: (Check appropriate classification)
IPT oilfield waste which is non-hazardous by characteristic
by product identification | | | | | |
| 1988, regulatory determination, the above describedEXEMPT oilifield waste | waste is: (Check appropriate classification)
IPT oilfield waste which is non-hazardous by characteristic
by product identification | | | | | |
| 1988, regulatory determination, the above described
EXEMPT oilifield waste
analysis of
and that nothing has been added to the exempt or no
For NON-EXEMPT waste the following documents | waste is: (Check eppropriate classification)
NPT oilfield waste which is non-hazardous by characteristic
by product identification
n-exempt non-hezerdous waste defined above. | | | | | |
| 1988, regulatory determination, the above described
EXEMPT ollifield waste X NON-EXEM
analysis or
end that nothing has been added to the exempt or no
For NON-EXEMPT waste the following documents
MSDS information | waste is: (Check eppropriate classification)
NPT oilfield waste which is non-hazardous by characteristic
by product identification
n-exempt non-hezerdous waste defined above. | | | | | |
| 1988, regulatory determination, the above described
EXEMPT oilifield waste X NON-EXEM
analysis of
and that nothing has been added to the exempt or no
For NON-EXEMPT waste the following documents
MSDS information
RCRA Hezerdous Waste Analysis | waste is: (Check eppropriate classification)
NPT oilfield waste which is non-hazardous by characteristic
by product identification
n-exempt non-hezerdous waste defined above. | | | | | |
| 1988, regulatory determination, the above described
EXEMPT ollifield waste X NON-EXEM
analysis or
end that nothing has been added to the exempt or no
For NON-EXEMPT waste the following documents
MSDS information | waste is: (Check eppropriate classification)
NPT oilfield waste which is non-hazardous by characteristic
by product identification
n-exempt non-hazardous waste defined above.
Ition is attached (check appropriate items): | | | | | |

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

| Name (Original Signature): | |
|----------------------------|--|
| Title: Field Supervisor | |

Date: ___

NOV 15'02 15:01 No.003 P.01

ID:12022386510

MESTERN GAS RESOURCES

PRACTICAL SOLUTIONS FOR A ELEMPERTOMORROW

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 |
| . . | | D - 4 | |
| 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 |
| | | | |

| Mercury | ND | 0.001 |
|----------|-------|-------|
| Selenium | 0.002 | 0.001 |
| Silver | ND | 0.001 |
| | | |

0.001

0.001

ND - Parameter not detected at the stated detection limit.

References:

Chromium

Lead

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.

0.001

0.001

Note:

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

Comments:

4 Corners Comp. Station.

Analyst

Review

5.0

5.0

0.2 1.0 5.0

Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTLER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

| Client: | | QA/QC | | Project #: | | | N/A | | |
|---------------------|--------------|-----------|------------------------|--|-----------|------------------------------|-------------------------|--|--|
| Sample ID: | | 10-11-TM | QA/QC | Date Repo | rted: | 10-11-02 | | | |
| Laboratory Number: | | 23991 | | Date Samp | oled: | | N/A | | |
| Sample Matrix: | | Soil | | Date Recei | ived: | N/A | | | |
| Analysis Requested: | | Total RCR | A Metals | Date Analy | zed: | | 10-11-02 | | |
| Condition: | | N/A | | Date Diges | ted: | | 10-10-02 | | |
| | | | | | | | | | |
| Blank & Duplicate | Instrument | Method | STANSIR SANSANA TATA . | 2944 17 192 1. Adda 22 7 7 900 200 200 - 3 | Duplicate | % | Acceptance | | |
| Conc. (mg/Kg) | Blank (mg/L) | | Limit | | | Diff. | 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 | ND | ND | 0.001 | ND | ND | 0.0% | 0% - 30% | | |
| | | | | | | 0.21.000001111.2.00000000000 | | | |
| Spike | | Spike | Sample | e 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

Review

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· |
 | 30 12 | | | | N/A | | |
|--------|---------------------------------------|---------------------|-------------------------------|----------|------|--------|-------|--------------|-------|------------------------------|------------------------------|---------------------------------------|----------------|--------|----------------------|--|
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| | | Remarks | | | | | | | } | $\frac{D_{ate}}{tu}$ | | | Sample Receipt | | tact | le lce |
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(505) 632-0615 |
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1 | | |
 | Signature | Signature | Signature | | | | |
| | oject Nar | T' | Sample No./
Identification | R. | | | | | | hed by: (| hed by: (| hed by: (| | | | |
| | Client / Project Name | Sampler:
Arlyw | Sal | Gral | | | | | | Relinquished by: (Signature) | Relinquished by: (Signature) | Relinquished by: (Signature) | | | | |

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UDVJDA VUOTOLIO JO MINUO

| istrict I - (505) 393-6161 New Mexico 0. Box 1980 obbs. NM 88241-1980 obbs. NM 88241-1980 Energy Minerals and Natural Resource istrict II - (505) 748-1283 RECEV HOIL Conservation Division 1 S. First 2040 South Pacheco Street 'trict III - (505) 334-6178 NOV 1 8 2002 `Rio Brazos Road NOV 1 8 2002 c, NM 87410 OIL CONSERVATION | ON
Submit Original |
|---|--|
| REQUEST FOR APPROVAL TO ACCEPT | SOLID WASTE |
| 1. RCRA Exempt: Non-Exempt: Danny Fount
10. 22.02
9:30M.M. | 4. Generator Hotaover Compression |
| Verbal Approval Received: Yes 🔀 No 🔲 | 5. Originating Site 6 Nwon CR. 3536 |
| 2. Management Facility Destination Envirotech Soil Remedia.
Facility Landfarm #2 | 6. Transporter ICU Rocky MTu |
| 3. Address of Facility Operator 5796 US Highway 64
Farmington, NM 87401 | 8. State flor. |
| 7. Location of Material (Street Address or ULSTR) | "A" Sec 9, T30N, RIZW |
| 9. <u>Circle One</u> : | Stor Juan County, NW. |
| A. All requests for approval to accept oilfield exempt wastes will be accepted. B. All requests for approval to accept non-exempt wastes must be accepted. B. All requests for approval to accept non-exempt wastes must be accepted. All requests for approval to accept non-exempt wastes must be accepted. All transporters must certify the wastes delivered are only those consigned. BRIEF DESCRIPTION OF MATERIAL: Soil contaminated w/ New Awtifree Driver wout for help or equipment heway gone someone damped p MSDS ATTACHEED | empanied by necessary chemical analysis to
on of origin. No waste classified hazardous by
d for transport.
Eze. Tote full off of truck
to pick p drum. While
brock to be tote.
NOV 2002
NOV 2002
OIL CONS. DIV.
DIST. 3 |
| Estimated Volume cy Known Volume (to be entered by the ope | 620112Q |
| SIGNATURE: A Subra M Brown TITLE: Landfarm M
Waste Management FacilityAuthorized Agent | |
| TYPE OR PRINT NAME: Harlan M. Brown TEL | EPHONE NO X |
| (This space for State Use) | |
| APPROVED BY: Dany Form TITLE: Envir | 0/ Engt DATE: 11/14/02 |
| APPROVED BY: //2////////////////////////////////// | matelle cologist DATE: 11/10/02 |
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PRODUCTION OPERATORS, INC

505 325 4242 P.02/02

99043.005



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 67410 (506) 334-6178 Fax (805)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: | 2. Destination Name: |
|---|--|
| HANDIER CONDRESSION | Envirotech Soil Remediation Facility |
| HANOVER Compression
4000 LomAS | Landfarm #2 |
| | Hilltop, New Mexico |
| HARMINGTON, NIN 81401 | |
| FArmington NM 87401
3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): |
| "A" Sec9. T30N, RIZW | |
| Saw Juan County, 2) of. | |
| Attach list of originating sites as appropriate | |
| 4. Source and Description of Waste | 120 i dave lila |
| Approximately 70 94/1025 of | ANTIFICEZE TELEASED TO |
| 1 Min of an order | 1 1 Lanze 1245 "Insur Deadurt" |
| soil by UNKNOWN Thirt. The | Antificeze released to
Antificze was "new product". |
| County Row 3536, 6 mile for | rom pau mont. |
| | 4 |
| | |
| 1. <u>Glenn Boudheauk</u>
<u>Hanover Compression</u> | representative for: |
| (Print Name) | |
| HANOVER Compression | do hereby certify that, |
| according to the Resource Conservation and Recove | ry Act (RCRA) and Environmental Protection Agency's July, |
| 1988, regulatory determination, the above described | WASTRIS, ICHeck appropriate classification |
| | NPT oilfield waste which is non-hazardous by characteristic
r by product identification |
| - | Langeless works defined should |
| and that nothing has been added to the exempt or no | in-exempt non-hazardous waste defined above. |
| | the transfer of the statement of the interests |
| 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 Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature) Title: Date:

. •

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

Chevron Texaco 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

| COMPONENTS | CAS NUMBER | AMOUNT |
|-----------------------|------------|--------------------|
| Ethylene Glycol | 107-21-1 | 80 - 94.99 %weight |
| Diethylene glycol | 111-46-6 | 1 - 4.99 %weight |
| Water | 7732-18-5 | 1 - 4.99 %weight |
| Dipotassium phosphale | 7758-11-4 | 1 - 3.99 %weight |

SECTION 3 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 NEALTH 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

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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 falal 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 modical 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.

SECTION 5 FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

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

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

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 alroorne 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 & ACCIDENTAL RELEASE MEASURES

Revision Number: 1 Revision Date: 06/20/2002 2 of 7

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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.S | TORAGE | |
|--------------------------|--------|--|
| | | |

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 flammable 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 CONTROL SPERSONAL PROTECTION | 17 31 1 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 |
|---|---|
| | |

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 safely glasses, chemical goggles, or faceshields if

Revision Number: 1 Revision Date: 05/20/2002 3 of 7

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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 | |
| Elhylene Glycol | OSHA PEL | | | 125 mg/m3 | |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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 READTIVITY

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.

SECTION 11 TOXICOLOGICALINFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product loxicology 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

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 glycal (EG). The taxicity 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 glycal 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 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.

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

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 CONSIDERAT | The sheet of the second se | | | |
|-----------------------------------|--|------------|-------------|--|
| PREPERING 1 DISDOSAISTICALSINERAL | | - T- F', ' | ាការស្នេ ខេ | |
| | | که د دور س | | |
| | | | | |

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

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| SARA 311/312 CATEGORIES | : 1. Immediate (Acute) H | ealth Effects: YES |
|---------------------------|---------------------------------------|-------------------------|
| | 2. Delayed (Chronic) He | eallh Effects: YES |
| | 3. Fire Hazard: | NO |
| | Sudden Release of F | Pressure Hazard: NO |
| | 5. Reactivity Hazard: | NO |
| REGULATORY LISTS SEAR | CHED: | |
| 4_11=IARC Group 1 | 12=TSCA Section 8(a) PAIR | 21=TSCA Section 5(3) |
| 4_IZA=IARC Group 2A | 13=TSCA Section 8(d) | 25≍CAA Section 112 HAPs |
| 4_12B=IARC Group 2B | 15=SARA Section 313 | 26=CWA Section 311 |
| 05=NTP Carcinogen | 16=CA Proposition 65 | 28=CWA Section 307 |
| 06=OSHA Carcinogen | 17=MA RTK | 30=RCRA Waste P-List |
| 09=TSCA 12(b) | 18=NJ RTK | 31=RCRA Waste U-List |
| 10=TSCA Section 4 | 19=DOT Marine Pollutant | 32=RCRA Appendix VIII |
| 11=TSCA Section 5(a) CAIR | 20=PA RTK | |

| Disthylens glycol | 25 |
|-------------------|--------------------|
| Ethylene Glycol | 15, 17, 18, 20, 25 |

| CERCLA REPO | RTABLE QUANTITIES | (RQ)/S/ | ARA 302 THRE | SHOLD PLANNING | QUANTITIES(TPQ): |
|-------------|-------------------|---------|--------------|----------------|------------------|
| | | | | | |

| 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 Saventh Amendment Directive 92/32/EEC. **.**.... . . .

| UNITED STATES: All of the components of this materi | rial are on the Toxic Substances Control Act (TSC) | A) |
|---|--|----|
| 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

SECTION 16 OTHER INFORMATION EF 1931

| NFPA | RAT | NGS: |
|------|-----|------|
|------|-----|------|

Health: 2

Flammability: 1 Reactivity: 0

Revision Number; 1 Revision Date: 05/20/2002 6 of 7

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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:

| | | | | | - AND THE ADDRESS OF A |
|------|---|---------------------------|-----|---|----------------------------------|
| 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 sware 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 furniched 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** oí 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 ct, NM 87410 istrict IY - (505) 827-7131 | DN
Submit Original |
|---|--|
| REQUEST FOR APPROVAL TO ACCEPT | SOLID WASTE |
| 1. RCRA Exempt: 🛄 Non-Exempt: 🔀 | 4. Generator JW OPERATING |
| Verbal Approval Received: Yes 🔲 No 🔀 | 5. Originating Site Main Yard |
| 2. Management Facility Destination Envirotech Soil Remedia.
Facility Landfarm #2 | 6. Transporter Paul & Song |
| 3. Address of Facility Operator 5796 US Highway 64
Farmington, NM 87401 | 8. State Were Mercico |
| 7. Location of Material (Street Address or ULSTR) | 2405 B. Southsile River Rd |
| 9. <u>Circle One</u> : | Farmington, aller- |
| 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 accordenerator. B. All requests for approval to accept non-exempt wastes must be accordenerator. All requests for approval to accept non-exempt wastes must be accordenerator. All requests for approval to accept non-exempt wastes must be accordenerator. All requests for approval to accept non-exempt wastes must be accordenerator. All requests for approval to accept non-exempt wastes must be accordenerator. All transporters must certify the wastes delivered are only those consigned. BRIEF DESCRIPTION OF MATERIAL: Soil contaminated with labe oil Soil classed upont Jw Opeonating is done. To tal unshalls energy is although the second /li> | And when we |
| SIGNATURE: Waste Management FacilityAuthorized Agent
Waste Management FacilityAuthorized Agent
TYPE OR PRINT NAME: Harlan M. Brown TEL | anager DATE: 10.15.07 M
EPHONE NO. 505-632-0615 |
| (This space for State Use)
APPROVED BY: Demy Term TITLE: Environment
APPROVED BY: Thete months - TITLE: Environment | |



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT OL CONSERVATION DIVISION AZTEO DISTRICT OFFICE 1000 RIG BRAZOS ROAD AZTEC, NEW MEXICO 57419 (505) 334-5170 Fak (805)334-6170

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GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS 02099-004

| 1. Generator Name and Address: | 2. Destination Name: |
|---|--|
| JW Operating | Envirotech Soil Remediation Facility |
| JW Operating
2405 B Southside River Road | Landfarm #2 |
| Farmington, U.M. B7401 | Hilltop, New Mexico |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR): |
| JW-Operating yard | |
| JUNGR SS DD | |
| Farmington, U.M. 87401.
Attach list of arginating sites as appropriate | |
| 4. Source and Description of Waste | |
| Lube oil contoninated s | soil; oil from comprossor |
| skibs. | |
| | |
| | |
| | |
| March Klal | |
| Print Name) | representative for: |
| TW operating | do hereby certify that, |
| | y Act (RCRA) and Environmental Protection Agency's July, |
| 1988, regulatory determination, the above described v | Naste is: (Check appropriate classification) |
| | more than the second state of the second state |
| | PT oilfield waste which is non-hazardous by characteristic by product identification |
| anarysis of | by product menuncation |
| and that nothing has been added to the exempt or non | exempt non-hazardous waste defined above. |
| | |
| For NON-EXEMPT waste the following documentat | |
| K MSDS Information
RCRA Hazardous Waste Analysis | Other (description): |
| | • |

Chain of Custody

dy

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): Max L. Klohn |
|---|
| Title: Land Mechanic |
| Date: 10/15/02 |
| |

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 | |
| | Concentration | Det.
Limit | Regulatory
Level | |
| Parameter | (mg/Kg) | (mg/Kg) | (mg/Kg) | ! |
| | | | | |
| Arsenic | 0.010 | 0.001 | 5.0 | |
| Devision | 2 22 | 0.004 | 400 | |

| Barium | 3.22 | 0.001 | 100 |
|----------|-------|-------|-----|
| Cadmium | 0.004 | 0.001 | 1.0 |
| Chromium | 0.012 | 0.001 | 5.0 |
| Lead | 0.008 | Ó.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.

Ånalyst

Walter Vista Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 | oled: | | N/A |
| Sample Matrix: | · . | Soil | | Date Rece | ived: | | N/A |
| Analysis Requested: | | Total RCR | A Metals | Date Analy | zed: | | 10-18-02 |
| Condition: | · . | N/A | | Date Diges | sted: | • | 10-18-02 |
| Blank & Duplicate
Conc. (mg/Kg) | Instrument
Blank (mg/L) | Method
Blank | Deteo
Lin | ction Sample
nit | Duplicate | %
Diff. | Acceptance
Range |
| 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% |
| Spike | | Spike | Sam | ple Spiked | Percent | | Acceptance |
| Conc. (mg/Kg) | | Added | | Sample | Recovery | | Range |
| 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 | 0.008 | 0.506 | 99.6% | | 80% - 12 0% |
| Mercury | | 0.050 | ND | 0.049 | 98.0% | | 80% - 120% |
| Selenium | | 0.500 | 0.006 | 0.504 | 99.6% | | 80% - 120% |

ND - Parameter not detected at the stated detection limit.

0.500

References:

Silver

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

ND

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

0.499

Comments:

QA/QC for samples 24053 and 24057.

Ånalyst

Mustin m Wheten

99.8%

80% - 120%

| | · | • | | | | | | | - |
|--------------------------------------|----------------|----------------|-----------------------------|---|---|-----------------------|---------------------|---------|-------|
| Client / Project Name
てい Po い と (| | | Project Location
LF2-5 B | oject Location
È F.2-57, BB - 13, 1-1;11700,NM | top.NM | ANALYSIS / PARAMETERS | IAMETERS | | |
| Sampler:
K P K | | | Olient No.
のとのうろ | J
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1 | iners
, A | | | Remarks | |
| 0./ | Sample
Date | Sample
Time | Lab Number | | No.
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RCR | | | | |
| te | 8 | | 24053 | 50:1 | > - | | | | |
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| Relinquished by (Signature) | (6 | | | Date Time | Received by: (Signature) | *) /,), 0 / + + | <u> </u> | Date | Time |
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| Relinquished by: (Signature) | (6 | | | | Received by: (Signature) | (e | | | |
| | | | _ 8.4. | FOVIDOT | IDDTFCH INC | | Sample Receipt | Receipt | |
| | | | | | | | | 7 | N N/A |
| | | | | 5796 U.S.
Earmington Ne | 5796 U.S. Highway 64
Earmington New Mexico 87401 | | Received Intact | | |
| | | | | (505) (505) | (505) 632-0615 | | Cool - Ice/Blue Ice | | |

| istrict I - (505) 393-6161
O. Box 1940
obbs, NM 88241-1980
istrict II - (505) 748-1283
11 S. First
rtesia, NM 88210
istrict III - (505) 334-6178
000 Rio Brazos Road
etec, NM 87410
istrict IV - (505) 827-7131 | | New Mexico
rals and Natural Resource
Oil Conservation Divisio
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131 | n
02099-002 | Form C-138
Originated 4/18/95
Submit Original
Plus 1 Copy
to appropriate
District Office |
|--|---|--|---|---|
| | REQUEST FOR | R APPROVAL TO ACCEPT | SOLID WASTE | |
| 1. RCRA Exempt: | Non-Exempt: 🕅 | | 4. Generator WDD | erating |
| Verbal Approval Rece | | | 5. Originating Site NET | 311303 |
| 2. Management Facility | Destination yard | tech souf Remediation | 6. Transporter Paul 4 | Sons |
| 3. Address of Facility O | perator 5796. KS | Huy 64
aton, nm 87401 | 8. State MM | |
| 7. Location of Material (| Street Address or U | ESTRI SICZO TZIN, PL | IN Rip aruba Ct | <u>и</u> . |
| 9. <u>Circle One</u> : | | | | 0 |
| B. All requests for a
PROVE the mate
listing or testing v | erial is not-hazardou
will be approved. | on-exempt wastes must be acco
s and the Generator's certification
elivered are only those consigned | n of origin. No waste classified | |
| Total
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APPROVED BY: | , | ам тітье: <u>Geolo</u>
тітье: <u>Ениі юм</u> | / · · · / | ,/ |

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MAX Klohn Ju operating co.

505 564 3446 P.01 サモンタイー シイチン

564-3450

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (308) 334-8179 Pag (903)334-6170

JENNIFER A. SALISBURY

GARY E. JOHNSON GOVERNOR

CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address: | 2. Destination Name: |
|--|--|
| J.W. Operating | Envirotech Soil Remediation Facility
Landfarm #2 |
| 2405 B Southside K.K. | Hilltop, New Mexico |
| 87401 | |
| 3. Originating Site (name): | Location of the Waste (Street address &/or ULSTR):
SUC . 20 T31 N R 6W |
| Nebu 303 | Julia Isin Ruw |
| | Rio anibacty. |
| Attach list of originating sites as appropriate | • |
| 4. Source and Description of Waste | · · · · · · · · · · · · · · · · · · · |
| Lube oils on ground. | |
| | |
| | |
| | |
| | |
| 1 Max G. Klohn. | representative for: |
| J.W. Operating | do hereby certify that, |
| | y Act (RCRA) and Environmental Protection Agency's July, |
| 1988, regulatory determination, the above described | Waste is: (Check appropriate classification) |
| EXEMPT oilfield waste X NON-EXEM | IPT oilfield waste which is non-hazardous by characteristic |
| analysis or | IPT oilfield waste which is non-hazerdous by characteristic
by product identification |
| and that nothing has been added to the exempt or not | n-exempt non-hazardous waste defined above. |
| | |
| | |
| For NON-EXEMPT waste the following documenta | |
| χ MSDS Information | tion is attached (check appropriate items): |
| - | |
| $ \underbrace{ \begin{array}{c} \swarrow \\ \searrow \end{array} } MSDS Information \\ \underbrace{ \begin{array}{c} \swarrow \\ \searrow \end{array} } RCRA Hezardous Waste Analysis \\ \end{array} } $ | |
| X MSDS Information
X RCRA Hazardous Waste Analysis
Chain of Custody | |
| X MSDS Information
X RCRA Hazardous Waste Analysis
Chain of Custody | Cother (description): |
| X MSDS Information Y RCRA Hazardous Waste Analysis Chain of Custody This wasta is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D. | Cother (description): |
| X MSDS Information Y RCRA Hazardous Waste Analysis Chain of Custody Chain of Custody This wasta is in compliance with Regulated Levels of Market Science | Cother (description): |
| MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody
This wasta is in compliance with Regulated Levels of N
to 20 NMAC 3.1 subpart 1403.C and D.
Name (Original Signature): Max U. Klo | Cother (description): |
| X MSDS Information Y RCRA Hazardous Waste Analysis Chain of Custody This wasta is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D. | Cother (description): |
| MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody
This wasta is in compliance with Regulated Levels of N
to 20 NMAC 3.1 subpart 1403.C and D.
Name (Original Signature): Max U. Klo | Cother (description): |



CSI Project #: Client: 01038-005 Grab Date Reported: 10-10-02 Sample ID: 23980 Date Sampled: 10-08-02 Laboratory Number: 10323 Date Received: 10-08-02 Chain of Custody: Soil Date Analyzed: 10-10-02 Sample Matrix: Preservative: Cool Date Digested: 10-09-02 Cool & Intact Analysis Needed: Condition: **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 |
| Mercury | ND | 0.001 | 0.2 |
| Selenium | 0.007 | 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. 31-6 #207.

Analyst

Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORRO

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Acceptance

Range

| 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
Conc. (mg/Kg) | Instrument
Blank (mg/L) | Method
Blank | Detection
Limit | Sample | 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 Conc. (mg/Kg)

| 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% |
| | | | | | |

Sample

Spiked

Samole

Percent

Recovery

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.

Spike

Added

Analyst

Review

| ORD 10323 | ANALYSIS / PARAMETERS | Remarks | | | | | | | | A | | Sample Receipt | : | Cool - Ice/Blue Ice |
|---------------------|------------------------------|----------------------------------|----------------------------------|------------|----------------------------|--|--|--|------------------------------------|------------------------------|------------------------------|-----------------|---|---------------------|
| I OF CUSTODY RECORD | 31-6 #207 9 | 0 0 3 8 - 00 S | Sample Natrix | | 0 Soil [/ | | | | Date Time Received by: (Signature) | | Received by: (Signature) | ENVIROTECH INC. | 5796 U.S. Highway 64
Farmington New Mexico 87401 | (505) 632-0615 |
| CHAIN OF | roject Name Project Location | Sampler:
Hare and W. Erow Olo | Sample Sample Lab N
Date Time | 31-6 \$207 | Grag- 10.8. 12 14:45 33980 | | | | Helinquished by: (Signature) | Relinquished by: (Signature) | Relinquished by: (Signature) | | | |