NM1 - 6

C-138

YEAR(S):

2004-2003

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Navajo Pipeline
	5. Originating Site Monument Sec 35
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 35-19S-37E, Monument,NM	

9. Circle One:

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

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

RECEIVED

MAY 24 2004

Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

BRIEF DESCRIPTION OF MATERIAL:

RE: 05-19-04

Contaminated Soil.

Enclosed is certificate of waste status and letter of approval.

This approval is for this one spill. This material has been approved in the past.

Estimated Volume 1060 yards Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 05-19-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

052604-1

(This space for State Use)

APPROVED BY: [signature] TITLE: Enviro Engr DATE: 5.20.04

APPROVED BY: [signature] TITLE: Environmental Geologist DATE: 5-26-04

CERTIFICATE OF WASTE STATUS

Non-Exempt Waste Material

ORIGINATION LOCATION: S35, 19S, 37E, LEA County

SOURCE: 6" Crude Line

DISPOSAL LOCATION: CRI

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

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

Name: Bob Allen

Title/Agency: President/SESI

Address: 703 E. Clinton, Hobbs, NM

Signature:

Date: 5-13-04

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

June 13, 2001

CERTIFIED MAIL
RETURN RECEIPT NO. 7099-3220-0000-5051-2399

Mr. Darrell Moore
Navajo Refining Co.
P.O. Box 159
Artesia, NM 88211-0159

RE: Navajo Refining Company, Crude Oil Pipeline and Trucking Spills

Dear Mr. Moore:

The New Mexico Oil Conservation Division (OCD) has reviewed the Navajo Refining Company's (Navajo) January 15, 2001 letter regarding Navajo, crude oil pipeline and trucking spills. The letter requests that Navajo be allowed to use the analyses submitted previously on December 28, 1995, January 30, 1996 and statement of process knowledge for determining the soils to be RCRA non-hazardous during future crude oil pipeline and trucking spill remediations.

The above referenced request is approved with the following conditions:

1. The above representative analyses can be used in lieu of individual sampling of each spill event until December 31, 2005.

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

3. Navajo will notify the OCD within 24 hours of any system changes which could potentially alter the composition of any spilled crude such that RCRA hazardous waste characteristics in the spill area could be exceeded.

Please be advised that OCD approval does not relieve Navajo of liability should these types of leaks and spills result in actual contamination of surface water, ground water of the environment. In addition , OCD approval does not relieve Navajo of responsibility for compliance with any other federal, state or local laws and/or regulations. If you have any questions please contact me at (505) 476-3490.

CERTIFICATE OF WASTE STATUS
EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR OCD

ADDRESS 1220 S. St. Francis Drive, Santa Fe, NM 87505

GENERATING SITE Araho disposal Facility

COUNTY Lea STATE NM

TYPE OF WASTE Liquids and Sludge

ESTIMATED VOLUME 8000 BBLS and 1680 Yards

GENERATING PROCESS SWD Permit GW-037

REMARKS Liquids & Sludge From the Lined Disposal Pit

NMOCD FACILITY CRI

TRUCKING COMPANY CRI

I hereby certify, represent and warrant that the wastes are generated from oil and gas exploration and production operations exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt wastes.

AGENT Martyne J Kieling
SIGNATURE

NAME Martyne Kieling
PRINTED

ADDRESS 1220 S. St. Francis Drive

Santa Fe, NM 87505

DATE 05/24/04

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

RECEIVED
MAY 19 2004
OIL CONSERVATION DIVISION

Form C-138
Revised June 10, 2003

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to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Halliburton Energy Services 5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 5801 Lovington Hwy,Hobbs,NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RECEIVED MAY 2004 Hobbs OCD

RE: 05-12-04

Neutralized PAD Acid Residue

Small amounts of this material that remains on the transport is returned to the Halliburton facility to be neutralized.

Enclosed is certificate of waste status and MSDS data.

This approval is for one year. This material has been approved in the past.(07-17-02)

Estimated Volume 50 bbls per month Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 05-12-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

1-H00250

(This space for State Use)

APPROVED BY: _____ TITLE: Environmental Engr DATE: 5-17-04

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 5/20/04

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
AS REQUIRED BY New Mexico CONSERVATION DIVISION

COMPANY/GENERATOR: Halliburton

ADDRESS: 5801 Lovington Hwy

GENERATING SITE: Halliburton Energy Services, 5801 Lovington Hwy, Hobbs, NM COUNTY Lea STATE NM

TYPE OF WASTE: Neutralized PAD Acid Residue returned from job site. (Material has not gone down hole)

ESTIMATED VOLUME: 500 BBLS

GENERATING PROCESS: PAD Acid is an emulsified mixture of HCL acid and Xylene Bottoms. We blend the material in our facility and send it out to job sites. After the job, there are small amounts of theis material that remains on the transports. This material is returned to the facility, neutralized with sodium bicarbonate and/or soda ash to a PH between 6 and 8.5.

NMOCD FACILITY: Controlled Recovery Inc.

TRUCKING FACILITY: Controlled Recovery Inc

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous of listed waste" pursuant to the provisions of 40 CFR, Part 261, subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: _____
SIGNATURE

NAME: HARVEY PRICE
PRINTED

ADDRESS: 5801 Lovington Hwy Hobbs, NM 88240

DATE: 5/12/2004

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-138
Revised March 17, 1999
Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X Verbal Approval Received. Yes ☐ No X	4. Generator Halliburton Energy Services
	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery Inc.	6. Transporter Halliburton
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or U/L or STR) 5801 Lovington Hwy., Hobbs	New Mexico

9. Circle One:

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

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is non-hazardous and the Generator's certification of origin. 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:

07-17-02

Neutralized PAD Acid Residue
Small amounts of this material that remains on the transports is returned to the Halliburton facility to be neutralized.

Enclosed is certificate of waste status and MSDS data to approve this waste stream through July 20, 2003.

Estimated Volume approx. 50 bbls. per month cy Known Volume (to be entered by the operator at the end of the haul) ___ cy

SIGNATURE _____ TITLE: Bookkeeper DATE: 07-17-02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Mazaren TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: Engineer DATE: 7/17/02

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 7/23/02

Office

From: Stephen Bailey [Stephen.Bailey@Halliburton.com]
Sent: Tuesday, July 16, 2002 8:33 AM
To: CRI
Subject: FW: CRI CHEMICALS

Ken,

Here is the process that we follow concerning the PAD ACID. The PAD acid is a combination of hcl acid and xylene bottoms that is emulsified with WS-44. There are small amounts of the PAD acid that is returned to the facility that does not get pumped down hole. These returns get dumped into a sump at the acid dock and neutralized with sodium bicarbonate and/or soda ash. The PH is raised up to a minimum of 6 to a maximum of 8-8.5ph. The acid is neutralized and the xylene bottoms has a flash point above 140 degrees.

If you have any other questions concerning this process, please let me know.

Thanks,

Stephen W. Bailey

FSQC

505-392-0701-Office

505-631-1817-Cell

505-738-1123-Home

505-392-7062-Fax

-----Original Message-----
From: Stephen Bailey
Sent: Tuesday, July 16, 2002 8:34 AM
To: 'CRI'
Subject: FW: CRI CHEMICALS

Stephen W. Bailey

FSQC

505-392-0701-Office

505-631-1817-Cell

505-738-1123-Home

505-392-7062-Fax

-----Original Message-----
From: Harvey Price
Sent: Tuesday, July 16, 2002 8:28 AM
To: Stephen Bailey
Subject: CRI CHEMICALS

<<XYLENE BOTTOMS.pdf>> <<HYDROCHLORIC ACID.pdf>> <<PAD ACID.pdf>> <<SODA ASH.pdf>> <<SODIUM BICARBONATE.pdf>> <<WS-44.pdf>>

HARVEY PRICE

MAINTENANCE ASSOCIATE

505-392-0746 OFFICE

505-390-1609 CELLULAR

Office

From: Stephen Bailey [Stephen.Bailey@Halliburton.com]
Sent: Tuesday, July 16, 2002 7:34 AM
To: CRI
Subject: FW: CRI CHEMICALS

Stephen W. Bailey

FSQC

505-392-0701-Office

505-631-1817-Cell

505-738-1123-Home

505-392-7062-Fax

-----Original Message-----
From: Harvey Price
Sent: Tuesday, July 16, 2002 8:28 AM
To: Stephen Bailey
Subject: CRI CHEMICALS

<<XYLENE BOTTOMS.pdf>> <<HYDROCHLORIC ACID.pdf>> <<PAD ACID.pdf>> <<SODA ASH.pdf>> <<SODIUM BICARBONATE.pdf>> <<WS-44.pdf>>

HARVEY PRICE

MAINTENANCE ASSOCIATE

505-392-0746 OFFICE

505-390-1609 CELLULAR

MATERIAL SAFETY DATA SHEET

WS-44 EMULSIFYING AGENT

Revision Date: 06/13/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: WS-44 EMULSIFYING AGENT
Synonyms: None
Chemical Family: Blend
Application: Emulsifier

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

Substance	Weight Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Isopropanol 67-63-0	10 - 30%	400 ppm, 983 mg/m3	400 ppm, 980 mg/M3
Heavy aromatic naphtha solvent 67891-79-6	1 - 5%	Not applicable	Not applicable
Naphthalene 91-20-3	1 - 5%	10 ppm	10 ppm

Substance	Weight Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Proprietary component Mixture	Unknown	Not applicable	Not applicable

3. HAZARDS IDENTIFICATION

Hazard Overview
May cause eye and skin burns. May cause respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May cause allergic skin reaction. Potential carcinogen. Repeated overexposure may cause liver and kidney effects. 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
Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician
Not Applicable

5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	115
Flash Point/Range (C):	46
Flash Point Method:	Not Determined
Autoignition Temperature (F):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	0.8
Flammability Limits in Air - Upper (%):	12

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. Avoid spraying water directly into storage containers due to danger of boilover. 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 3, Flammability 2, Reactivity 0

HMIS Ratings: Flammability 2, Reactivity 0, H 3

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. Remove ignition sources and work with non-sparking tools. 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 before reuse.

Storage Information
Store away from oxidizers. Store in a cool well ventilated area. 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
Full protective chemical resistant clothing.

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

Other Precautions
Eyewash fountains and safety showers must be easily accessible. Persons with hypersensitivity to alkyl phenol surfactants should avoid all contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Clear light yellow
Odor:	Hydrocarbon
pH:	7.5
Specific Gravity @ 20 C (Water=1):	0.98
Density @ 20 C (lbs./gallon):	8.16

Bulk Density @ 20 C (lbs/ft3):	Not Determined
Boiling Point/Range (F):	330
Boiling Point/Range (C):	165
Freezing Point/Range (F):	Not Determined
Freezing Point/Range (C):	Not Determined
Vapor Pressure @ 20 C (mmHg):	5
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	12
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Disperses
Solubility in Solvents (g/100ml):	Not Determined
Solubility in Sea Water (g/100ml):	Not Determined
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not Determined
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
Causes severe respiratory irritation. This material is an anesthetic. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Skin Contact
May cause skin irritation. May cause an allergic skin reaction.

Eye Contact
Causes severe eye irritation May cause eye burns.

Ingestion
Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea.

Aggravated Medical Conditions
Skin disorders.

Chronic Effects/Carcinogenicity
This product contains significant amounts of polynuclear aromatic hydrocarbons (PNA). Certain PNAs have been shown to cause skin cancer in laboratory animals and may also cause cancer of the lungs and other sites. Contains petroleum distillates which have been shown to cause skin cancer in laboratory animals. Formaldehyde and possibly paraformaldehyde may react with hydrochloric acid to form bis-chloromethyl ether, a known carcinogen. Repeated overexposure may cause liver and kidney effects. Prolonged or repeated exposure may cause embryo and fetus toxicity.

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
Not determined

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. Store away from ignition sources. Transport with all closures in place. Return for reuse or disposal according to national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

Flammable Liquid, N.O.S., 3, UN1993, III, (46.1 C)
(Contains Petroleum Naphtha)

NAERG 128

Canadian TDG

Flammable Liquid, N.O.S., 3, UN1993, III
(Contains Petroleum Naphtha)

ADR

UN1993,Flammable Liquid, N.O.S., 3, III
(Contains Petroleum Naphtha)

Air Transportation

ICAO/IATA

Flammable Liquid, N.O.S., 3, UN1993, III
(Contains Petroleum Naphtha Solution)

Sea Transportation

IMDG

Flammable Liquid, N.O.S.(Contains Petroleum Naphtha), 3.3, UN1993, III, (46.1 C)
EMS 3-07

Other Shipping Information

Labels: Flammable Liquid

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 contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:
Naphthalene//91-20-3
Isopropanol//67-63-0

EPA CERCLA/Superfund Reportable Spill Quantity For This Product
EPA Reportable Spill Quantity is 613 Gallons based on Naphthalene (CAS: 91-20-3).

EPA RCRA Hazardous Waste Classification
If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Ignitability

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

MA Right-to-Know Law
One or more components listed.

NJ Right-to-Know Law
One or more components listed.

PA Right-to-Know Law
One or more components listed.

Canadian Regulations

Canadian DSL Inventory
All components listed on inventory.

WHMIS Hazard Class
B3 Combustible Liquids
D1B Toxic Materials

16. OTHER INFORMATION

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

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

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

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

*****END OF MSDS*****

MATERIAL SAFETY DATA SHEET

Product Trade Name: **SODA ASH**

Revision Date: 06/04/2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: SODA ASH
Synonyms: None
Chemical Family: Carbonate
Application: Buffer

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

SUBSTANCE	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Sodium carbonate	497-19-8	60 - 100%	Not applicable	Not applicable

3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory irritation.

4. FIRST AID MEASURES

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Skin Wash with soap and water. Get medical attention if irritation persists.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

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):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Lower (oz./ft3):	Not applicable
Flammability Limits in Air - Upper (%):	Not Determined
Flammability Limits in Air - Upper (oz./ft3):	Not applicable

Fire Extinguishing Media	Water fog, carbon dioxide, foam, dry chemical.
Special Exposure Hazards	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 2, Flammability 0, Reactivity 0
HMIS Ratings:	Flammability 0, Reactivity 0, Health 2

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures	Use appropriate protective equipment. Avoid creating and breathing dust.
Environmental Precautionary Measures	Prevent from entering sewers, waterways or low areas.
Procedure for Cleaning/Absorption	Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions	Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.
Storage Information	Store away from acids. Store in a cool, dry location. Product has a shelf life of 36 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use in a well ventilated area. Localized ventilation should be used to control dust levels.
Respiratory Protection	Dust/mist respirator. (95%)
Hand Protection	Normal work gloves.
Skin Protection	Normal work coveralls.
Eye Protection	Dust proof goggles.
Other Precautions	Eyewash fountains and safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Color:	White

Odor:	Odorless
pH:	11.5 (1% sol.)
Specific Gravity @ 20 C (Water=1):	2.5
Density @ 20 C (lbs./gallon):	Not Determined
Bulk Density @ 20 C (lbs/ft3):	48 to 62
Boiling Point/Range (F):	Not Determined
Boiling Point/Range (C):	Not Determined
Freezing Point/Range (F):	Not Determined
Freezing Point/Range (C):	Not Determined
Vapor Pressure @ 20 C (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	Not Determined
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Partially soluble
Solubility in Solvents (g/100ml):	Not Determined
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined
Molecular Weight (g/mole):	105.99

10. STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid	None anticipated
Incompatibility (Materials to Avoid)	Strong acids.
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.
Skin Contact	Prolonged or repeated contact may cause skin irritation.
Eye Contact	May cause eye irritation.
Ingestion	Irritation of the mouth, throat, and stomach.
Aggravated Medical Conditions	None known.
Chronic Effects/Carcinogenicity	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Other Information	None known.

Toxicity Tests

Oral Toxicity:	LD50: 4220 mg/kg (Rat)
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	Not applicable
Bio-accumulation	Not Determined

Ecotoxicological Information

Acute Fish Toxicity:	TLM24: 385 mg/l (Lepomis macrochirus)
Acute Crustaceans Toxicity:	Not determined
Acute Algae Toxicity:	Not determined
Chemical Fate Information	Not determined
Other Information	Not applicable

13. DISPOSAL CONSIDERATIONS

Disposal Method	Bury in a licensed landfill according to federal, state, and local regulations.
Contaminated Packaging	Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT
Not restricted

Canadian TDG
Not restricted

ADR Not restricted

Air Transportation

ICAO/IATA
Not restricted

Sea Transportation

IMDG
Not restricted

Other Shipping Information

Labels: None

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
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	Non-Controlled

16. OTHER INFORMATION

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

Additional Information	For additional information on the use of this product, contact your local Halliburton representative. For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Product Stewardship at 1-580-251-4335.
Disclaimer Statement	This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

*****END OF MSDS*****

MATERIAL SAFETY DATA SHEET

PAD ACID (less than 10% HF and less than 10% HCL)

Revision Date: 06/28/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: PAD ACID (less than 10% HF and less than 10% HCL)
Synonyms: None
Chemical Family: Blend
Application: Solvent

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

Substance	Weight Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Light aromatic solvent 64742-95-6	10 - 30%	Not applicable	Not applicable
Hydrochloric acid 7647-01-0	5 - 10%	5 ppm	5 ppm
Hydrofluoric acid 7664-39-3	5 - 10%	3 ppm	3 ppm

3. HAZARDS IDENTIFICATION

Hazard Overview
May cause eye, skin, and respiratory burns. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May be fatal if absorbed through the skin. Potential carcinogen.

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. Wearing protective gloves, apply 2.5% calcium gluconate gel at burn site rubbing continuously.

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. If available, apply 1 to 2 drops of 0.5% Pontocaine Hydrochloride into open eye. Irrigate with 1.0% calcium gluconate in normal saline for 1 to 2 hours.

Ingestion
Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician
Not Applicable

5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	Not Determined	**Min:**	> 140
Flash Point/Range (C):	Not Determined	**Min:**	> 60
Flash Point Method:	Not Determined		
Autoignition Temperature (F):	Not Determined		
Autoignition Temperature (C):	Not Determined		
Flammability Limits in Air - Lower (%):	Not Determined		
Flammability Limits in Air - Upper (%):	Not Determined		

Fire Extinguishing Media
Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards
Reaction with steel and certain other metals generates flammable hydrogen gas. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations. Do not allow runoff to enter waterways. 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 4, Flammability 1, Reactivity 0

HMIS Ratings: Flammability 1, Reactivity 0, Health 4

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures
Wear full protective gear.

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. Neutralize to pH of 6-8. 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 before reuse.

Storage Information
Store away from alkalis. Store in a cool well ventilated area. 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/acid gas respirator.

Hand Protection
Impervious rubber gloves.

Skin Protection
Full protective chemical resistant clothing.

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:	Pungent irritating
pH:	0.5
Specific Gravity @ 20 C (Water=1):	1.11
Density @ 20 C (lbs./gallon):	9.25
Bulk Density @ 20 C (lbs/ft3):	Not Determined
Boiling Point/Range (F):	Not Determined
Boiling Point/Range (C):	Not Determined
Freezing Point/Range (F):	Not Determined
Freezing Point/Range (C):	Not Determined
Vapor Pressure @ 20 C (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	100

Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Soluble
Solubility in Solvents (g/100ml):	Not Determined
Solubility in Sea Water (g/100ml):	Soluble
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not Determined
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)
Contact with metals. Strong alkalis. Silicone bearing materials. Strong oxidizers.

Hazardous Decomposition Products
Flammable hydrogen gas. Chlorine. Hydrogen fluoride. Carbon monoxide and carbon dioxide.

Additional Guidelines
Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure
Eye or skin contact, inhalation.

Inhalation
Causes severe respiratory burns. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. May cause lungs to fill with fluids.

Skin Contact
Causes skin burns which may not be immediately painful or visible. Effects on skin may be delayed for 24-48 hours. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

Eye Contact
Causes severe eye burns.

Ingestion
Causes burns of the mouth, throat and stomach. May cause damage to bones and teeth. May cause abdominal pain, vomiting, nausea, and diarrhea. 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. Eye ailments.

Chronic Effects/Carcinogenicity
Prolonged or repeated exposure may cause central nervous system and brain effects. Prolonged, excessive exposure may cause erosion of the teeth. Prolonged or repeated exposure may result in fluorosis. Symptoms include nausea, vomiting, loss of appetite, diarrhea, and/or constipation. Fluorosis also results in bone density increase. 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
Not determined

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
Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

Corrosive Liquid, Acidic, Inorganic, N.O.S., 8, UN3264, II
(Contains Hydrofluoric Acid, Hydrochloric Acid)

RQ (Hydrochloric Acid - 2273 kg., Hydrofluoric Acid - 45.4 kg.)
NAERG 154

Canadian TDG

Corrosive Liquid, N.O.S., 8, (9.2), UN1760, II
(Contains Hydrofluoric Acid, Hydrochloric Acid)

ADR

UN3264,Corrosive Liquid, Acidic, Inorganic, N.O.S., 8, II
(Contains Hydrofluoric Acid, Hydrochloric Acid)

Air Transportation

ICAO/IATA

Corrosive Liquid, Acidic, Inorganic, N.O.S., 8, UN3264, II
(Contains Hydrofluoric Acid, Hydrochloric Acid Solution)
RQ (Hydrochloric Acid - 2273 kg., Hydrofluoric Acid - 45.4 kg.)

Sea Transportation

IMDG

Corrosive Liquid, Acidic, Inorganic, N.O.S.(Contains Hydrofluoric Acid, Hydrochloric Acid), 8, UN3264, II
RQ (Hydrochloric Acid - 2273 kg., Hydrofluoric Acid - 45.4 kg.)
EMS 8-15

Other Shipping Information

Labels: Corrosive

15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory
All components listed on inventory.

EPA SARA Title III Extremely Hazardous Substances
CAS: 7664-39-3//Chemical Name: Hydrogen Fluoride///TPQ: 500

EPA SARA (311,312) Hazard Class
Acute Health Hazard
Chronic Health Hazard
Fire Hazard

EPA SARA (313) Chemicals
This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:
Hydrogen Fluoride//7664-39-3

EPA CERCLA/Superfund Reportable Spill Quantity For This Product
EPA Reportable Spill Quantity is 180 Gallons based on Hydrofluoric acid (CAS: 7664-39-3).

EPA RCRA Hazardous Waste Classification
If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Corrosivity

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

MA Right-to-Know Law
One or more components listed.

NJ Right-to-Know Law
One or more components listed.

PA Right-to-Know Law
One or more components listed.

Canadian Regulations

Canadian DSL Inventory
All components listed on inventory.

WHMIS Hazard Class
E Corrosive Material
B3 Combustible Liquids

16. OTHER INFORMATION

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

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

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

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

END OF MSDS

MATERIAL SAFETY DATA SHEET

HYDROCHLORIC ACID

Revision Date: 08/15/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: HYDROCHLORIC ACID
Synonyms: None
Chemical Family: Inorganic acid
Application: Solvent

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

Substance	Weight Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Hydrochloric acid 7647-01-0	30 - 60%	5 ppm	5 ppm

3. HAZARDS IDENTIFICATION

Hazard Overview
May cause eye, skin, and respiratory burns. May be harmful if swallowed.

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
Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

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):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined

Fire Extinguishing Media
Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards
May form explosive mixtures with strong alkalis. Decomposition in fire may produce toxic gases. Reaction with steel and certain other metals generates flammable hydrogen gas. Do not allow runoff to enter waterways.

Special Protective Equipment for Fire-Fighters
Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings: Health 3, Flammability 0, Reactivity 1

HMIS Ratings: Flammability 0, Reactivity 1, Health 3

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures
Use appropriate protective equipment.

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. Neutralize to pH of 6-8. 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 before reuse.

Storage Information
Store away from alkalis. Store in a cool well ventilated area. 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
Acid gas respirator.

Hand Protection
Impervious rubber gloves.

Skin Protection
Full protective chemical resistant clothing.

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:	Pungent acrid
pH:	0.8
Specific Gravity @ 20 C (Water=1):	1.16
Density @ 20 C (lbs./gallon):	9.66
Bulk Density @ 20 C (lbs/ft3):	Not Determined
Boiling Point/Range (F):	230
Boiling Point/Range (C):	110
Freezing Point/Range (F):	-50
Freezing Point/Range (C):	-46
Vapor Pressure @ 20 C (mmHg):	26
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	35
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Soluble
Solubility in Solvents (g/100ml):	Not Determined
Solubility in Sea Water (g/100ml):	Soluble
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not Determined

Partition Coefficient/n-Octanol/Wa	Not Determined
Molecular Weight (g/mole):	36.5

10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid
None anticipated

Incompatibility (Materials to Avoid)
Strong alkalis.

Hazardous Decomposition Products
Flammable hydrogen gas. Chlorine. Hydrogen sulfide.

Additional Guidelines
Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure
Eye or skin contact, inhalation.

Inhalation
Causes severe respiratory irritation.

Skin Contact
May cause skin burns.

Eye Contact
May cause eye burns.

Ingestion
Causes burns of the mouth, throat and stomach.

Aggravated Medical Conditions
Skin disorders.

Chronic Effects/Carcinogenicity
Prolonged, excessive exposure may cause erosion of the teeth.

Other Information
None known.

Toxicity Tests

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: LC50: 3124 ppm/1 hr. (Rat)

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
Not determined

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
Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

Hydrochloric Acid Solution, 8, UN1789,
NAERG 157

Canadian TDG

Hydrochloric Acid Solution, 8, (9.2), UN1789, II

ADR

UN1789,Hydrochloric Acid Solution, 8, II

Air Transportation

ICAO/IATA

Hydrochloric Acid Solution, 8, UN1789, II

Sea Transportation

IMDG

Hydrochloric Acid Solution, 8, UN1789, II
EMS 8-03

Other Shipping Information

Labels: Corrosive

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

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

- EPA Reportable Spill Quantity is 1592 gallons based on Hydrochloric acid (CAS: 764[illegible]-0).

EPA RCRA Hazardous Waste Classification
If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Corrosivity

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

MA Right-to-Know Law
One or more components listed.

NJ Right-to-Know Law
One or more components listed.

PA Right-to-Know Law
One or more components listed.

Canadian Regulations

Canadian DSL Inventory
All components listed on inventory.

WHMIS Hazard Class
E Corrosive Material

16. OTHER INFORMATION

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

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

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

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

*****END OF MSDS*****

MATERIAL SAFETY DATA SHEET

SODIUM BICARBONATE

Revision Date: 06/28/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: SODIUM BICARBONATE
Synonyms: None
Chemical Family: Carbonate
Application: Buffer

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

Substance	Weight Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Sodium bicarbonate 144-55-8	60 - 100%	10 mg/m3	15 mg/m3

3. HAZARDS IDENTIFICATION

Hazard Overview
May cause eye, skin, and respiratory irritation.

4. FIRST AID MEASURES

Inhalation
If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes

difficult.

Skin
Wash with soap and water. Get medical attention if irritation persists.

Eyes
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion
Under normal conditions, first aid procedures are not required.

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):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined

Fire Extinguishing Media
All standard firefighting media.

Special Exposure Hazards
Not applicable.

Special Protective Equipment for Fire-Fighters
Not applicable.

NFPA Ratings: Health 0, Flammability 0, Reactivity 0

HMIS Ratings: Flammability 0, Reactivity 0, Health 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures
Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary Measures
Prevent from entering sewers, waterways or low areas.

Procedure for Cleaning/Absorption
Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions

- Avoid creating or inhaling dust.

Storage Information
Store away from acids. Store in a dry location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls
A well ventilated area to control dust levels. Local exhaust ventilation should be used in areas without good cross ventilation.

Respiratory Protection
Not normally needed. But if significant exposures are possible then the following respirator is recommended. Dust/mist respirator. (95%)

Hand Protection
Normal work gloves.

Skin Protection
Normal work coveralls.

Eye Protection
Wear safety glasses or goggles to protect against exposure.

Other Precautions
None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Color:	White
Odor:	Odorless
pH:	8
Specific Gravity @ 20 C (Water=1):	1.87
Density @ 20 C (lbs./gallon):	Not Determined
Bulk Density @ 20 C (lbs/ft3):	41.2
Boiling Point/Range (F):	Not Determined
Boiling Point/Range (C):	Not Determined
Freezing Point/Range (F):	Not Determined
Freezing Point/Range (C):	Not Determined
Vapor Pressure @ 20 C (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	Not Determined
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Soluble
Solubility in Solvents (g/100ml):	Not Determined
Solubility in Sea Water (g/100ml):	Soluble
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not Determined
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
None anticipated

Incompatibility (Materials to Avoid)
Strong acids.

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 mild respiratory irritation.

Skin Contact
May cause mild skin irritation.

Eye Contact
May cause eye irritation.

Ingestion
None known

Aggravated Medical Conditions
None known.

Chronic Effects/Carcinogenicity
No data available to indicate product or components present at greater than 1% are chronic health hazards.

Other Information
None known.

Toxicity Tests

Oral Toxicity: LD50: 4220 mg/kg (Rat)

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
Bury in a licensed landfill according to federal, state, and local regulations.

Contaminated Packaging
Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

Not restricted

Canadian TDG

Not restricted

ADR

Not restricted

Air Transportation

ICAO/IATA

Not restricted

Sea Transportation

IMDG

Not restricted

Other Shipping Information

Labels: None

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
None

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
Non-Controlled

16. OTHER INFORMATION

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

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

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

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

*****END OF MSDS*****

MATERIAL SAFETY DATA SHEET

XYLENE BOTTOMS

Revision Date: 06/13/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: XYLENE BOTTOMS
Synonyms: None
Chemical Family: Aromatic hydrocarbon
Application: Solvent

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

Substance	Weight Percent (%)	ACGIH TLV-TWA	OSHA PEL-TWA
Xylene 1330-20-7	60 - 100%	100 ppm	100 ppm
Toluene 108-88-3	1 - 5%	50 ppm	200 ppm
Benzene 71-43-2	1 - 5%	0.5 ppm	1 ppm

3. HAZARDS IDENTIFICATION

Hazard Overview
May cause eye and skin irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May be absorbed through the skin. Repeated overexposure may cause liver and kidney effects. 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):	111
Flash Point/Range (C):	43
Flash Point Method:	Not Determined
Autoignition Temperature (F):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined

Fire Extinguishing Media
Carbon Dioxide, Dry Chemicals, Foam.

Special Exposure Hazards
May be ignited by heat, sparks or flames. Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Avoid spraying water directly into storage containers due to danger of boilover. Decomposition in fire may produce toxic gases. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

Special Protective Equipment for Fire-Fighters
Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

NFPA Ratings: Health 3, Flammability 3, Reactivity 0

HMIS Ratings: Flammability 3, Reactivity 0, Health 3

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. Remove ignition sources and work with non-sparking tools. 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 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:	Aromatic hydrocarbon
pH:	Not Determined
Specific Gravity @ 20 C (Water=1):	0.89
Density @ 20 C (lbs./gallon):	7.41
Bulk Density @ 20 C (lbs/ft3):	Not Determined
Boiling Point/Range (F):	Not Determined
Boiling Point/Range (C):	Not Determined
Freezing Point/Range (F):	Not Determined
Freezing Point/Range (C):	Not Determined
Vapor Pressure @ 20 C (mmHg):	Not Determined
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):	Not Determined
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
Toxic fumes. 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 be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

Eye Contact
Causes severe eye irritation May cause eye burns.

Ingestion
Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. May cause pulmonary edema.

Aggravated Medical Conditions
Skin disorders. Eye ailments. Lung disorders.

Chronic Effects/Carcinogenicity
Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart, central nervous system and spleen damage. Contains benzene, a known carcinogen, over-exposures may result in bone marrow depression possibly leading to leukemia.

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
Empty container completely. Transport with all closures in place. Return for reuse or disposal in a sanitary landfill according to national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

DOT

Petroleum Distillates, N.O.S., UN1268, III, (43.9 C)

Canadian TDG

Petroleum Distillates, N.O.S., UN1268, III

ADR

UN1268,Petroleum Distillates, N.O.S., III

Air Transportation

ICAO/IATA

Petroleum Distillates, N.O.S., UN1268, III

Sea Transportation

IMDG

Petroleum Distillates, N.O.S., UN1268, III, (43.9 C)
EMS 3-07

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 contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:
Benzene//71-43-2
Toluene//108-88-3
Xylene//1330-20-7

EPA CERCLA/Superfund Reportable Spill Quantity For This Product
EPA Reportable Spill Quantity is 19 Gallons based on Xylene (CAS: 1330-20-7).

EPA RCRA Hazardous Waste Classification
If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Ignitability

California Proposition 65
The California Proposition 65 regulations apply to this product.

MA Right-to-Know Law
One or more components listed.

NJ Right-to-Know Law
One or more components listed.

PA Right-to-Know Law
One or more components listed.

Canadian Regulations

Canadian DSL Inventory
All components listed on inventory.

WHMIS Hazard Class
B3 Combustible Liquids
D1A Very Toxic Materials
D1B Toxic Materials

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Navajo Refinery
	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J Waste Services
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM	

9. Circle One:

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

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

BRIEF DESCRIPTION OF MATERIAL:

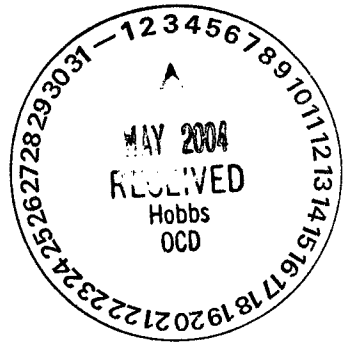
RE: 05-03-04A

TK413 kerosene tank bottoms.

This is tank scale and sludge that was left in the tank after it was drained.

Enclosed is non-exempt certificate of waste status and MSDS.

This approval is for one year. This material has been approved in the past.



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

SIGNATURE Kim Flowers TITLE: Rep DATE: 05-03-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyn J Kitty TITLE: Environmental Geologist DATE: 5/12/04

NAVAJO REFINING COMPANY, L.P.

FAX
(505) 746-5283 DIV. ORDERS
(505) 746-5461 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX
(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

April 30, 2004

Ken Marsh
CRI
P.O. Box 388
Hobbs, NM 88214

Post-it® Fax Note 7671	Date 4-30-04	# of pages ▶ 5
To Ken Marsh	From Charlie Plymale	
Co./Dept. CRI	Co. Navajo R. Co.	
Phone #	Phone #	
Fax # 505-393-3615	Fax #	

Ken,

I would like to profile our Kerosene Scale/tank bottoms from TK 413 at our Artesia Refinery into your facility. We have profiled kerosene into your facility before. By process knowledge this material is NON HAZARDOUS. I am including a certificate of waste and an MSDS for this material.

This material would be transported by D & J waste haulers in 20 yard roll off bins.

Sincerely,

Charlie Plymale
Sr. Environmental Specialist

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy/Lea**

STATE: **NM**

TYPE OF WASTE: Tk 413 kerosene tank bottoms

ESTIMATED VOLUME: **1000 yards**

GENERATING PROCESS: This is tank scale and sludge that was left in the tank After it was drained.

REMARKS: This material has been approved in the past

NMOCD FACILITY: **Controlled Recovery Incorporated**

TRUCKING COMPANY: **D&J Waste Services**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: _____
SIGNATURE

NAME: **Charlie Plymale**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA,NM 88210

DATE: 4/30/04

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

MATERIAL SAFETY DATA SHEET

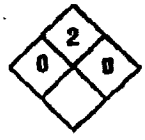
EMERGENCY PHONE NUMBERS:

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)

KEROSENE

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: KEROSENE
FORMULA: C_9H_{20} to $C_{16}H_{34}$
CAS NUMBER: 8008-20-6
CHEMICAL FAMILY: Hydrocarbon; Aliphatic, Aromatic
SYNONYMS: Fuel oil No.1, Coal oil, Range oil, Kerosine, UN 1223



NFPA 704 SYMBOL

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NO.	VOL%	TLV	PEL (OSHA)
KEROSENE (containing)	8008-20-6	100	300 ppm	500 ppm
Naphthalene	91-20-3	1-5	10 ppm	10 ppm

OTHER INGREDIENT INFORMATION:

SECTION 3 - PHYSICAL DATA

BOILING POINT: 300-575°F
VAPOR PRESSURE: @100°F 5 mm Hg
VAPOR DENSITY (AIR=1): 4.5
SOLUBILITY IN WATER: Insoluble
ODOR THRESHOLD: 1.0 ppm
APPEARANCE AND ODOR: Clear to yellow liquid with characteristic hydrocarbon smell
SPECIFIC GRAVITY (WATER=1): 0.8
% VOLATILE BY VOLUME: N.A.
EVAPORATION RATE: No data available
AUTOIGNITION TEMP: 444°F

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: CLASS II, COMBUSTIBLE LIQUID
FLASH POINT: 110-165°F (TOC)
FLAMMABLE LIMITS: LEL = 0.7% UEL = 5.0%
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, Halon
SPECIAL FIRE FIGHTING PROCEDURES: Move container from fire area if possible. Use water to keep fire exposed containers cool. Use foam for spill control.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Evacuate a radius of 1500 feet for uncontrolled fires. Vapors are heavier than air and may travel great distances and flash back. Extinguish only if flow can be stopped.

IRE = 2 (Moderate)

KEROSENE

SECTION 5 - REACTIVITY DATA

TABILITY: Stable
AZARDOUS POLYMERIZATION: Will not occur
ONDITIONS TO AVOID/INCOMPATABILITY: Strong oxidizers
AZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

FPA REACTIVITY = 0 (minimal)

SECTION 6 - HEALTH HAZARD DATA

OUTES OF ENTRY: Inhalation, ingestion, skin contact.

EALTH HAZARDS: Chronic toxicity, possible cancer, irritation to eyes, skin and mucous membranes, pulmonary edema, bronchial pneumonia, asphyxiation, liver and kidney damage, anemia or myocardial damage.

ARCINOGENICITY: Kerosene is not listed by NTP or IARC.

IGNS AND SYMPTOMS OF EXPOSURE: Irritation of eyes, skin and mucous membranes, dizziness, eadaches, respiratory arrest, coughing, irregular heartbeat, mental confusion, vomiting, urred vision, flushing of face, slurred speech, difficulty in swallowing, weakness, pain limbs, coma and convulsions. Also, insomnia, toxicity, psychosis, tremors, exaggerated endon reflexes

MERGENCY AND FIRST AID PROCEDURES:
INGESTION: DO NOT induce vomiting. Immediately seek medical attention. Give water to dilute, if conscious.
INHALATION: Maintain respirations, assist with artificial respiration if needed and give oxygen if available and trained to do so. Seek medical attention. If liquid is in lungs (aspirated) seek medical care.
EYES: Flush eyes with water for at least 15 minutes. Seek medical attention.
SKIN: Remove kerosene soaked clothing. Wash skin with soap and water. If irritation persists seek medical attention.

PA HEALTH = 0 (minimal)

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

EPS 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.

STE DISPOSAL: Dispose in accordance with RCRA regulations. Do not put in sewers or any water course.

ECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: All equipment and storage containers should be properly grounded. This material is subject to OSHA and DOT regulations. Portable metal containers should be bonded to the storage container before transferring liquid.

HER PRECAUTIONS: Avoid breathing vapors. Extremely flammable. Do not weld on containers unless properly cleaned and purged using safe work procedures.

SECTION 8 - ENVIRONMENTAL AND SPECIAL PROTECTION INFORMATION

SPIRATORY 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. Mechanical exhaust should be explosion proof.

EYE/SKIN PROTECTION: Rubber gloves, face shields, goggles or safety glasses with side shields, coveralls.

WORK/HYGIENIC PRACTICES: Remove contaminated clothing as soon as possible. Always wash after handling hazardous chemicals.

NOTICE: This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

REFER TO DEPARTMENT OF TRANSPORTATION (DOT) EMERGENCY RESPONSE GUIDEBOOK GUIDE 27 FOR ADDITIONAL EMERGENCY INFORMATION.

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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED
MAY 1 0 2004
OIL CONSERVATION DIVISION

Form C-138
Revised June 10, 2003

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Quail Tools 5. Originating Site Odessa Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State Texas
7. Location of Material (Street Address or ULSTR) 400 Alabama, Odessa, TX	

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:

RE: 05-03-04.

Sump Sludge generated from steam cleaning oilfield tools.

Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody.

Reactive Sulfides retested because 3 previous analyticals from11-26-03 <5.00, 02-01-01 <100, 10-02-01 <100.

This approval is for one year.

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

SIGNATURE Kim Flowers TITLE: Rep DATE: 05-03-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyn J Kitz TITLE: Environmental Geologist DATE: 5/12/04

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Quail Tools

ADDRESS 400 W. Alabama, Odessa, TX

GENERATING SITE 400 W. Alabama, Odessa, TX

COUNTY Ector STATE TX

TYPE OF WASTE Wash bay sludge

ESTIMATED VOLUME 60 yards yearly

GENERATING PROCESS this sludge is generated from washing down hole oil tools.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Bo Vizcaino
SIGNATURE

NAME Bo Vizcaino
PRINTED

ADDRESS 9 E Industrial Loop
Midland, TX 79701

DATE 4/30/04

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Bo Vizcaino

Llano Permian Environmental (Midland)

9 Industrial Loop

Midland, TX. 79701

Project: Quail Tool

Project Number: QUT.001.WD

Location: Odessa, TX

Lab Order Number: 4D23009

Report Date: 04/26/04

Llano Permian Environmental (Midland)	Project: Quail Tool	Fax: (432) 522-2180
# 9 Industrial Loop	Project Number: QUT.001.WD	Reported:
Midland TX., 79701	Project Manager: Bo Vizcaino	04/26/04 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Water Treatment Sludge	4D23009-01	Sludge	04/23/04 13:30	04/23/04 13:45

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Llano Permian Environmental (Midland)	Project: Quail Tool	Fax: (432) 522-2180
# 9 Industrial Loop	Project Number: QUT.001.WD	Reported:
Midland TX., 79701	Project Manager: Bo Vizcaino	04/26/04 15:28

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water Treatment Sludge (4D23009-01) Sludge									
Reactive Sulfide	**21.0**	12.5	mg/kg	2.5	ED42610	04/26/04	04/26/04	SW846 9030B	

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Llano Permian Environmental (Midland)	Project: Quail Tool	Fax: (432) 522-2180
# 9 Industrial Loop	Project Number: QUT.001.WD	Reported:
Midland TX., 79701	Project Manager: Bo Vizcaino	04/26/04 15:28

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42610 - 9030B SW846										
Blank (ED42610-BLK1)				Prepared & Analyzed: 04/26/04						
Reactive Sulfide	ND	5.00	mg/kg							
LCS (ED42610-BS1)				Prepared & Analyzed: 04/26/04						
Reactive Sulfide	20.5		mg/kg	22.2		92.3	50-150			
LCS Dup (ED42610-BSD1)				Prepared & Analyzed: 04/26/04						
Reactive Sulfide	20.9		mg/kg	22.2		94.1	50-150	1.93	20	
Calibration Check (ED42610-CCV1)				Prepared & Analyzed: 04/26/04						
Reactive Sulfide	696		mg/kg	680		102	80-120			
Duplicate (ED42610-DUP1)		Source: 4D23009-01		Prepared & Analyzed: 04/26/04						
Reactive Sulfide	21.2	12.5	mg/kg		21.0			0.948	20	

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Llano Permian Environmental (Midland) # 9 Industrial Loop Midland TX., 79701	Project: Quail Tool Project Number: QUT.001.WD Project Manager: Bo Vizcaino	Fax: (432) 522-2180 **Reported:** 04/26/04 15:28

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79765 - (432) 563-1800 - Fax (432) 563-1713

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: BO VICENTE
Company Name: LLANO PERMIAN
Company Address: 4 E. Industrial Loop
City/State/Zip: Midland TX 79701
Telephone No: 432 522 2133 Fax No: 432 522 2180
Sampler Signature: Bo Vicente

Project Name: Quail Tool
Project #: Quail.001, WO
Project Loc: Odessa, TX
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: TPH: 418.1 8015M 1005 1008	TOTAL: Calions (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Reactive Sulfides			RUSH TAT (Pre-Schedule)	Standard TAT
4D23009																														
-01	WATER TREATMENT SLUDGE	4/23/04	1330	2	1					X			X													X				

Special Instructions: early next week

Relinquished by:	Date	Time	Received by:	Date	Time
Bo Vicente	4/23/04	1345			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jeanne McMurry	04-23-04	1345

Sample Containers Intact? Y N
Temperature Upon Receipt: 29.0°C
Laboratory Comments:

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

RECEIVED
MAR 26 2004
Oil Conservation Division
1220 S. Saint Francis Dr.
Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Weatherford 5. Originating Site Hobbs, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 W. Marland, Hobbs, NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 03-22-04

Sump Sludge.

Washing of down hole oilfield pumps and equipment.
Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody.

This approval is for one year.

RECEIVED MAR 2004 Hobbs OCD

Estimated Volume 300 Bbls/annually. Known Volume (to be entered by the operator at the end of the haul) _____cy

SIGNATURE Kim Flowers
Waste Management Facility Authorized Agent

TITLE: Rep DATE: 03-22-04

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

03-29-04-1

(This space for State Use)

APPROVED BY: JK Johnson TITLE: ENVIRO ENGR DATE: 3.23.04

APPROVED BY: Martyn J. Kly. TITLE: Environmental Geologist DATE: 3-29-04

RECEIVED

FEB 03 2004

OIL CONSERVATION DIVISION

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Weatherford
	5. Originating Site Hobbs, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 W. Marland, Hobbs, NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 02-25-04A

Sump Sludge.

Washing of down hole oilfield pumps and equipment.
Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody.

This approval is for one year.

RECEIVED FEB 2004 OCD Hobbs

Estimated Volume 300 Bbls/annually. Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 02-25-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

030404-1

(This space for State Use)

APPROVED BY: _____ TITLE: Envir Engr DATE: 2.26.04

APPROVED BY: DENIED TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford

ADDRESS 2621 W Marland , Hobbs, NM 88240

GENERATING SITE Hobbs Facility, 2621 W. Marland

COUNTY Lea STATE NM

TYPE OF WASTE Sump SLudge

ESTIMATED VOLUME 300Bbls.

GENERATING PROCESS Washing of downhole oilfield pumps and equipment.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT James Sherlin
SIGNATURE

NAME James Sherlin
PRINTED

ADDRESS 2621 W. Marland

Hobbs, NM 88240

DATE 2-25-04

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CRI
attn: DAVID PARSONS
BOX 398
HOBBS NM 88241

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

REVISED 2/24/04 11:29:58

Client: **CRI**
Project: **WASH SUMP- WEATHERFORD**
Order: **0402014 CRI01** Receipt: **02-02-04**

William P. Biava, President of Assaigai Analytical Laboratories, Inc.

Sample: *SUMP* ✓ Collected: *01-29-04 16:00:00* By: *LP*
Matrix: *SLUDGE*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402014-01A		SW846 1010						By: RAC		
SFLASH-04-05	WC.2004.313.2		Flashpoint	>60.0	Deg C	1	20		02-03-04	02-06-04
0402014-01A		SW846 Sect. 7.3						By: NJL		
W0432	WC.2004.280.9	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		02-02-04	02-03-04
W0432	WC.2004.279.7		Sulfide, Reactive	ND	mg / Kg	1	500		02-02-04	02-03-04
0402014-01A		SW846-9045C						By: NJL		
OPH04001	WC.2004.276.1		pH	7.5	units	1	0.1	1	02-02-04	02-02-04
OPH04001	WC.2004.276.1		waste pH measured in water @	21.5	deg C	1	0		02-02-04	02-02-04
0402014-01B		SW846 1311/8260B Purgeable VOCs by GC/MS TCLP						By: CWJ		
X04184	XG.2004.424.18	75-35-4	1,1 Dichloroethylene	ND	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	71-43-2	Benzene	0.001	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	56-23-5	Carbon tetrachloride	ND	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	108-90-7	Chlorobenzene	ND	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	67-66-3	Chloroform	ND	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	78-93-3	Methyl ethyl ketone	0.021	mg / L	1	0.005	H	03-15-04	03-15-04
X04184	XG.2004.424.18	127-18-4	Tetrachloroethylene	0.018	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	79-01-6	Trichloroethylene	0.041	mg / L	1	0.001	H	03-15-04	03-15-04
X04184	XG.2004.424.18	75-01-4	Vinyl chloride	ND	mg / L	1	0.001	H	03-15-04	03-15-04
0402014-01B		SW846 3630A/8270C SVOCs by GC/MS TCLP						By: DS		
X0490	XG.2004.260.4	106-46-7	1,4-Dichlorobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	95-95-4	2,4,5-Trichlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	88-06-2	2,4,6-Trichlorophenol	ND	mg / L	1	100		02-11-04	02-12-04

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**

Project: **WASH SUMP- WEATHERFORD**

Order: **0402014 CRI01** Receipt: **02-02-04**

Sample: ***SUMP*** Collected: *01-29-04 16:00:00* By: *LP*

Matrix: ***SLUDGE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402014-01B		**SW846 3580A/8270C SVOCs by GC/MS TCLP**						**By: DS**		
X0490	XG.2004.260.4	121-14-2	2,4-Dinitrotoluene	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	118-74-1	Hexachlorobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-68-3	Hexachlorobutadiene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	67-72-1	Hexachloroethane	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4		m-Cresol & p-Cresol	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	88-95-3	Nitrobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	95-48-7	o-Cresol	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-86-5	Pentachlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	110-86-1	Pyridine	ND	mg / L	1	100		02-11-04	02-12-04
0402014-01C		**SW846 1311/3010A/6010B ICP TCLP**						**By: KDW**		
M04233	MT.2004.336.20	7440-38-2	Arsenic	ND	mg / L	1	0.2		02-18-04	02-23-04
M04233	MT.2004.327.19	7440-39-3	Barium	ND	mg / L	1	0.2		02-18-04	02-19-04
M04233	MT.2004.327.19	7440-43-9	Cadmium	ND	mg / L	1	0.02		02-18-04	02-19-04
M04233	MT.2004.336.23	7440-47-3	Chromium	ND	mg / L	1	0.02		02-18-04	02-23-04
M04233	MT.2004.327.19	7782-49-2	Selenium	ND	mg / L	1	0.05		02-18-04	02-19-04
M04233	MT.2004.327.19	7440-22-4	Silver	ND	mg / L	1	0.04		02-18-04	02-19-04
0402014-01C		**SW846 1311/3010A/7000 series AA-FL TCLP**						**By: DAH**		
M04238	MT.2004.328.35	7439-92-1	Lead	ND	mg / L	1	0.1		02-18-04	02-20-04
0402014-01C		**SW846 1311/7470A CVAA TCLP**						**By: DAH**		
M04230	MT.2004.322.17	7439-97-6	Mercury	ND	mg / L	1	0.0002		02-18-04	02-19-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 pH was analyzed at 16:03 on 2/2/04.

MEMO: Please note that the sample cooler was received at 16 degrees Celcius.

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7269
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CRI
attn: **DAVID PARSONS**
BOX 388
HOBBS **NM 88241**

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client: **CRI**
Project: **WASH SUMP- WEATHERFORD**
Order: **0402014** **CRI01** Receipt: **02-02-04**

Sample: ***SUMP*** Collected: *01-29-04 16:00:00* By: *LP*
Matrix: ***SLUDGE*** ✓

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402014-01A		**SW846 1010**						By: RAC		
SFLASH-04-05	WC.2004.313.2		Flashpoint	>60.0	Deg C	1	20		02-03-04	02-03-04
0402014-01A		**SW846 Sect. 7.3**						By: NJL		
W0432	WC.2004.280.8	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		02-02-04	02-03-04
W0432	WC.2004.279.7		Sulfide, Reactive	ND	mg / Kg	1	500		02-02-04	02-03-04
0402014-01A		**SW846-9045C**						By: NJL		
OPH04001	WC.2004.276.1		pH	7.5	units	1	0.1	1	02-02-04	02-02-04
OPH04001	WC.2004.276.1		waste pH measured in water @	21.5	deg C	1	0		02-02-04	02-02-04
0402014-01B		**SW846 3580A/8270C SVOCs by GC/MS TCLP**						By: DS		
X0490	XG.2004.280.4	106-46-7	1,4-Dichlorobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	95-95-4	2,4,5-Trichlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.280.4	88-06-2	2,4,6-Trichlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.280.4	121-14-2	2,4-Dinitrotoluene	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.280.4	118-74-1	Hexachlorobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	87-68-3	Hexachlorobutadiene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	67-72-1	Hexachloroethane	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4		m-Cresol & p-Cresol	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	98-95-3	Nitrobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	95-48-7	o-Cresol	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.280.4	87-86-5	Pentachlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.280.4	110-86-1	Pyridine	ND	mg / L	1	100		02-11-04	02-12-04
0402014-01B		**SW846 5030A/8260B Purgeable VOCs by GC/MS TCLP**						By: CWJ		
X0449	XG.2004.285.7	75-35-4	1,1 Dichloroethylene	ND	mg / L	1	0.05		02-11-04	02-13-04

ACCREDITED

SQLCoyote: Reports 1.0.0310221500XX *Report Date 2/24/2004 11:29:58 AM*

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **WASH SUMP- WEATHERFORD**
Order: **0402014 CRI01** Receipt: **02-02-04**

Sample: ***SUMP*** Collected: *01-29-04 16:00:00* By: *LP*
Matrix: ***SLUDGE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402014-01B		**SW846 5030A/8260B Purgeable VOCs by GC/MS TCLP**						By: CWJ		
X0449	XG.2004.285.7	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	71-43-2	Benzene	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	56-23-5	Carbon tetrachloride	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	108-90-7	Chlorobenzene	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	67-66-3	Chloroform	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.283.18	78-93-3	Methyl ethyl ketone	ND	mg / L	1	0.25		02-18-04	02-18-04
X0449	XG.2004.285.7	127-18-4	Tetrachloroethylene	0.97	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	79-01-6	Trichloroethylene	0.78	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	75-01-4	Vinyl chloride	ND	mg / L	1	0.05		02-11-04	02-13-04
0402014-01C		**SW846 1311/3010A/6010B ICP TCLP**						By: KDW		
M04233	MT.2004.336.23	7440-38-2	Arsenic	ND	mg / L	1	0.2		02-19-04	02-23-04
M04233	MT.2004.327.19	7440-39-3	Barium	ND	mg / L	1	0.2		02-19-04	02-19-04
M04233	MT.2004.327.19	7440-43-9	Cadmium	ND	mg / L	1	0.02		02-19-04	02-19-04
M04233	MT.2004.336.23	7440-47-3	Chromium	ND	mg / L	1	0.02		02-19-04	02-23-04
M04233	MT.2004.327.19	7782-49-2	Selenium	ND	mg / L	1	0.05		02-19-04	02-19-04
M04233	MT.2004.327.19	7440-22-4	Silver	ND	mg / L	1	0.04		02-19-04	02-19-04
0402014-01C		**SW846 1311/3010A/7000 series AA-FL TCLP**						By: DAH		
M04233	MT.2004.329.35	7439-92-1	Lead	ND	mg / L	1	0.1		02-19-04	02-20-04
0402014-01C		**SW846 1311/7470A CVAA TCLP**						By: DAH		
M04230	MT.2004.322.17	7439-97-6	Mercury	ND	mg / L	1	0.0002		02-19-04	02-19-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

1 pH was analyzed at 16:03 on 2/2/04.

MEMO: Please note that the sample cooler was received at 16 degrees Celcius.

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

4301 Masthead N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab Job No.: [illegible] Date: [illegible]

Page ______ of ______

Client: Weatherford

Address: 2621 W. Marland

City / State / Zip: Hobbs N.M.

Project Name / Number: Wash Sump

Contract / Purchase Order / Quote: James Sherlin

Project Manager / Contact: Jame Sherlin

Telephone No.: 393-3191

Fax No.: 393-4892

Samplers: (signature) [signature]

Analysis Required: No. of Containers; [illegible] 5lbs; ACCP; RCI

AALI Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Checked	No. of Containers										Remarks
[illegible]	Sump	1-29-04	4:00P	Sludge				✓										
OFFICE USE ONLY																		

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	1-29-04	Signature: [signature] 2/2/04 9:50AM	Signature:		Signature:
Printed: Larry Park	Time	Printed: [illegible]	Printed:	Time	Printed:
Company: CRI	4:30	Company: [illegible]	Company:		Company:
Reason: Testing		Reason: analysis	Reason:		Reason:

Method of Shipment: Bus

Shipment No.: Cooler temp: 16°

Special Instructions: Custody seal broken @ 9:50AM on 2/2/04 - DMR -

Comments: Fax Results to CRI 505-393-3615

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

ASSAIGAI PROJECT FILE

CRI
CONTROLLED RECOVERY INC.
P.O. BOX 388 • HOBBS, NM 88241 • (505) 393-1079

March 22, 2004

Martyne Kieling
State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Ms. Kieling,

RE: Weatherford Lab report

We recently started using Assaigai Labs in Albuquerque and have run into a problem with their testing procedure. On this particular sample, a lab tech made a decision that this sample was oil and not sludge. According to them, testing methods for oil and sludge differ. The oil itself is used as the analyte instead of doing the typical leaching procedure and then using that as the analyte. I questioned their results is how I came up with their response. In light of this, I asked them to re-run the volatiles and am enclosing their revised results.

If you want to call and visit with someone at the lab, our contact is Skip Tabor, mobile number is (505)250-3981, and their office is (505)345-8964.

Please call me if you have questions.

Thanks for your help.

David Parsons

RECEIVED

MAR 03 2004

OIL CONSERVATION DIVISION

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Weatherford
	5. Originating Site Hobbs, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 W. Marland, Hobbs, NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 02-25-04A

Sump Sludge.

Washing of down hole oilfield pumps and equipment.
Enclosed is non-exempt certificate of waste status, Analytical data, and Chain-of-Custody.

This approval is for one year.

RECEIVED FEB 2004 Hobbs OCD

Estimated Volume 300 Bbls/annually. Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 02-25-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

030404-1

(This space for State Use)

APPROVED BY: _____ TITLE: ENVIRO ENGR DATE: 2.26.04

APPROVED BY: DENIED TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford

ADDRESS 2621 W Marland , Hobbs, NM 88240

GENERATING SITE Hobbs Facility, 2621 W. Marland

COUNTY Lea STATE NM

TYPE OF WASTE Sump SLudge

ESTIMATED VOLUME 300Bbls.

GENERATING PROCESS Washing of downhole oilfield pumps and equipment.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT James Sherlin
SIGNATURE

NAME James Sherlin
PRINTED

ADDRESS 2621 W. Marland

Hobbs, NM 88240

DATE 2-25-04

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7269
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2551

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CRI
attn: DAVID PARSONS
BOX 388
HOBBS NM 88241

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client: CRI
Project: WASH SUMP- WEATHERFORD
Order: 0402014 CRI01 Receipt: 02-02-04

Sample: *SUMP* Collected: *01-29-04 16:00:00* By: *LP*
Matrix: *SLUDGE*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402014-01A		SW846 1010						By: RAC		
SFLASH-04-05	WC.2004.313.2		Flashpoint	>60.0	Deg C	1	20		02-03-04	02-03-04
0402014-01A		SW846 Sect. 7.3						By: NJL		
W0432	WC.2004.280.8	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		02-02-04	02-03-04
W0432	WC.2004.279.7		Sulfide, Reactive	ND	mg / Kg	1	500		02-02-04	02-03-04
0402014-01A		SW846-9045C						By: NJL		
OPH04001	WC.2004.276.1		pH	7.5	units	1	0.1	1	02-02-04	02-02-04
OPH04001	WC.2004.276.1		waste pH measured in water @	21.5	deg C	1	0		02-02-04	02-02-04
0402014-01B		SW846 3580A/8270C SVOCs by GC/MS TCLP						By: DS		
X0490	XG.2004.260.4	106-46-7	1,4-Dichlorobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	95-95-4	2,4,5-Trichlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	88-06-2	2,4,6-Trichlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	121-14-2	2,4-Dinitrotoluene	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	118-74-1	Hexachlorobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-68-3	Hexachlorobutadiene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	67-72-1	Hexachloroethane	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4		m-Cresol & p-Cresol	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	98-95-3	Nitrobenzene	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	95-48-7	o-Cresol	ND	mg / L	1	10		02-11-04	02-12-04
X0490	XG.2004.260.4	87-86-5	Pentachlorophenol	ND	mg / L	1	100		02-11-04	02-12-04
X0490	XG.2004.260.4	110-86-1	Pyridine	ND	mg / L	1	100		02-11-04	02-12-04
0402014-01B		SW846 5030A/8260B Purgeable VOCs by GC/MS TCLP						By: CWJ		
X0449	XG.2004.285.7	75-35-4	1,1 Dichloroethylene	ND	mg / L	1	0.05		02-11-04	02-13-04

ACCREDITED

SQLCoyote: Reports 1.0.0310221500XX *Report Date 2/24/2004 11:29:58 AM*

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**

Project: **WASH SUMP- WEATHERFORD**

Order: **0402014 CRI01** Receipt: **02-02-04**

Sample: ***SUMP*** Collected: *01-29-04 16:00:00* By: *LP*

Matrix: ***SLUDGE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402014-01B			**SW846 5030A/8260B Purgeable VOCs by GC/MS TCLP**					By: CWJ		
X0449	XG.2004.285.7	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	71-43-2	Benzene	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	56-23-5	Carbon tetrachloride	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	108-90-7	Chlorobenzene	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	67-66-3	Chloroform	ND	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.286.16	78-93-3	Methyl ethyl ketone	ND	mg / L	1	0.25		02-18-04	02-18-04
X0449	XG.2004.285.7	127-18-4	Tetrachloroethylene .7	0.97	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	79-01-6	Trichloroethylene .5	0.78	mg / L	1	0.05		02-11-04	02-13-04
X0449	XG.2004.285.7	75-01-4	Vinyl chloride	ND	mg / L	1	0.05		02-11-04	02-13-04
0402014-01C			**SW846 1311/3010A/6010B ICP TCLP**					By: KDW		
M04233	MT.2004.336.23	7440-38-2	Arsenic	ND	mg / L	1	0.2		02-19-04	02-23-04
M04233	MT.2004.327.19	7440-39-3	Barium	ND	mg / L	1	0.2		02-19-04	02-19-04
M04233	MT.2004.327.19	7440-43-9	Cadmium	ND	mg / L	1	0.02		02-19-04	02-19-04
M04233	MT.2004.336.23	7440-47-3	Chromium	ND	mg / L	1	0.02		02-19-04	02-23-04
M04233	MT.2004.327.19	7782-49-2	Selenium	ND	mg / L	1	0.05		02-19-04	02-19-04
M04233	MT.2004.327.19	7440-22-4	Silver	ND	mg / L	1	0.04		02-19-04	02-19-04
0402014-01C			**SW846 1311/3010A/7000 series AA-FL TCLP**					By: DAH		
M04233	MT.2004.329.35	7439-92-1	Lead	ND	mg / L	1	0.1		02-19-04	02-20-04
0402014-01C			**SW846 1311/7470A CVAA TCLP**					By: DAH		
M04230	MT.2004.322.17	7439-97-6	Mercury	ND	mg / L	1	0.0002		02-19-04	02-19-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

1 pH was analyzed at 16:03 on 2/2/04.

MEMO: Please note that the sample cooler was received at 16 degrees Celcius.

ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Chain of Custody Record

Lab Job No.: [illegible] Date [illegible]

Page ____ of ____

Client: Weatherford
Address: 2621 W. Marland
City / State / Zip: Hobbs N.M.
Project Name / Number: Wash Sump
Contract / Purchase Order / Quote: James Sherlin

Project Manager / Contact: James Sherlin
Telephone No.: 393-3191
Fax No.: 393-4892
Samplers: (signature) [signature]

Analysis Required: No. of Containers; 4500 Sbr (crossed out); RCI

AALI Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Checked	No. of Containers									Remarks
[illegible]	Sump	1-29-04	4:00	Sludge				✓									

ONLY USE ONCE (stamped down the fraction number column)

Relinquished by:
Signature: [signature]
Printed: Larry Park
Company: CRI
Reason: Testing
Date: 1-25-04
Time: 4:30

Received by: 2/2/04 9:50 AM
Signature: [signature]
Printed: [illegible]
Company: [illegible]
Reason: Analysis

Relinquished by:
Signature ____
Printed ____
Company ____
Reason ____
Date ____
Time ____

Received by:
Signature ____
Printed ____
Company ____
Reason ____

Method of Shipment: Bus
Shipment No.: Cooler temp. 16°
Special Instructions: Custody seal broken @ 9:50 AM on 2/2/04 - DMK -

Comments: Fax Results to CRI 505-393-3615

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

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

RECEIVED
MAR 03 2004
OIL CONSERVATION DIVISION

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No ☐	4. Generator Duke Energy Field Services, LP
	5. Originating Site See attached list
2. Management Facility Destination Controlled Recovery Incorporated	6. Transporter Controlled Recovery Inc.
3. Address of Facility Operator P.O. Box 388, Hobbs, New Mexico	8. State New Mexico
7. Location of Material (Street Address or ULSTR) See attached list	

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.

RECEIVED
FEB 2004
OCD
Hobbs

BRIEF DESCRIPTION OF MATERIAL:

02-25-04

RCRA non-exempt, non-hazardous sludge from the surface of equipment (engine) skids at Duke Energy Field Services, LP operated booster/compressor stations located in Eddy and Lea County, New Mexico.

Sludge results when rainwater, incidental amounts of coolant, and lubricating oils leak onto the equipment skids and then accumulate sand and dirt due to blowing winds. The material builds up in the containments and must be periodically removed and disposed.

A representative sample was collected for analysis from the Nash Booster, Eddy County, New Mexico. Analytical results from the sample and the Material Safety Data Sheets (MSDS) for Lubricating Oil (Pegasus 805, Pegasus 485) and Compressor Engine Coolant 70-30 are attached.

Estimated Volume approx. 40 bbls/yr cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Kim Flowers TITLE: Office DATE: 02-25-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

3-4-04

(This space for State Use)

APPROVED BY: _____ TITLE: Envir Engr DATE: 2.26.04

APPROVED BY: Martyn J. Kitz TITLE: Environmental Geologist DATE: 3-4-04

Duke Energy®
Field Services

DUKE ENERGY FIELD SERVICES
3300 North A Street
Building 7
Midland, TX 79705

432 620 4000

February 23, 2004

Dave Parsons
Controlled Recovery Inc.
P.O. Box 88
Hobbs, NM 88241

RE: Certificate of Waste Status and Request for Approval to Accept Solid Waste
Duke Energy Field Services, LP, Eddy and Lea County, New Mexico Booster/Compressor Stations

Dear Dave:

Duke Energy Field Service, LP (DEFS) requests approval to dispose of sludge material generated at compressor/booster locations that results when sand and dirt combine with the normal incidental leakage from engine compressor packages on the equipment bases. The resulting sludge must be removed and disposed as RCRA non-exempt, non-hazardous material. The process is the same at each site, therefore the analytical from Nash Booster is a representative analytical of the waste. Please find enclosed the following:

- Certificate of Waste Status
- Request for Approval to Accept Solid Waste (NMOCD C-138)
- Laboratory Analytical
- Applicable Material Safety Data Sheets (MSDS)

DEFS appreciates your consideration of this request and understands that you will seek NMOCD approval of this request. Please send a copy of the final approval forms to my attention at the following address:

Lynn Ward
Duke Energy Field Services, LP
10 Desta Dr., Suite 400-W
Midland, TX 79705

If you have any questions regarding this request, please call me at 432/620-4207.

Sincerely,
Duke Energy Field Services, LP

Lynn Ward
Sr. Environmental Specialist
Western Division

Cc: G. Kardos
R. Counts
K. Winn
R. Gilchrest
K. Char-Kimura
Env. File 4.1.9

Originating Sites	Location (Sec., Township, Range)
Burton Flats Booster	NW/4 NW/4, Sec. 1, T21S, R27E, Eddy County
Chalk Bluff Booster	SE/4 SW/4, Sec. 12, T18S, R27E, Eddy County
Dagger Draw Booster	SE/4 SE/4, Sec. 36, T19S, R24E, Eddy County
Dobbs Booster	NW/4, Sec. 20, T17S, R34E, Lea County
Emily Booster	NW/4, Sec. 22, T19S, R25E, Eddy County
Feagan Booster	SE/4 SW/4, Sec. 31, T19S, R25E, Eddy County
Fitz Booster	SW/4 NE/4, Sec. 34, T19S, R29E, Eddy County
Golf Course Booster	SE/4, Sec. 25, T21S, R36E, Lea County
Grayburg Booster	SE/4 NW/4, Sec. 18, T17S, R30E, Eddy County
Illinois Camp Booster	NW/4, Sec. 5, T18S, R28E, Eddy County
Kemnitz Booster	NE/4 SW/4, Sec. 20, T16S, R34E, Lea County
Lovington Booster	SW/4 SW/4, Sec. 31, T16S, R37E, Lea County
Logan Draw Booster	SE/4 NW/4, Sec. 25, T17S, R27E, Eddy County
Lusk Booster	NW/4 NE/4, Sec. 19, T19S, R32E, Lea County
Maljamar Booster	NW/4 SE/4, Sec. 20, T17S, R33E, Lea County
Nash Booster	Sec. 13, T23S, R29E, Eddy County
Oil Center Booster	NW/4, Sec. 33, T20S, R37E, Lea County
Parkway Booster	SW/4 SE/4, Sec. 34, T18S, R31E, Eddy County
Penroc Booster	NE/4, Sec. 27, T20S, R27E, Eddy County
Quail Booster	NE/4 NE/4, Sec. 14, T32S, R37E, Lea County
Shugart Booster	SE/4, Sec. 20, T18S, R31E, Lea County
Shadow Booster	NE/4 NE/4, Sec. 20, T18S, R26E, Eddy County
South Carlsbad Booster	SW/4, Sec. 7, T27S, R23E, Eddy County
Square Lake Booster	NW/4 NW/4, Sec. 4, T17S, R30E, Eddy County
Winchester Booster	SE/4, Sec. 15, T19S, R27E, Eddy County

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Duke Energy Field Services, LP

ADDRESS 10 Desta Dr., Suite 400-W, Midland, TX 79705

GENERATING SITE See attached

COUNTY Eddy & Lea STATE NM

TYPE OF WASTE RCRA non-exempt non hazardous sludge

ESTIMATED VOLUME ~40 bbls/yr

GENERATING PROCESS Incidental amts of coolant & lube oil that drip onto equipment skids and accumulate sand and dirt from blowing winds.

REMARKS

NMOCD FACILITY Controlled Recovery Inc.

TRUCKING COMPANY Controlled Recovery Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Lynn Ward
SIGNATURE

NAME Lynn Ward
PRINTED

ADDRESS 10 Desta Dr., Suite 400-W
Midland, TX 79705

DATE 2/23/04

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2555

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CRI
attn: DAVID PARSONS
BOX 388
HOBBS NM 88241

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

REVISED 02/18/04 4:45:02

Client: CRI
Project: DUKE ENERGY SERVICES-NASH BOOSTER
Order: 0401327 CRI01 Receipt: 01-20-04

William P. Biava, President of Assaigai Analytical Laboratories, Inc.

Sample: *NASH BOOSTER DRUMS* Collected: *01-14-04 14:00:00* By: *LW*
Matrix: *SLUDGE*

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0401327-01A		**SW846 1010**						By: RAC		
5FL042	WC.2004.230.2		Flashpoint	> 60.0	Deg C	1	20		01-26-04	01-26-04
0401327-01A		**SW846 1311/3010A/6010B ICP TCLP**						By: RJA		
ATELWS#5269	SB.2004.60.1		Arsenic	ND	mg/L	1	0.75	S	02-16-04	02-16-04
ATELWS#5269	SB.2004.60.1		Barium	ND	mg/L	1	1	S	02-16-04	02-16-04
ATELWS#5269	SB.2004.60.1		Cadmium	ND	mg/L	1	0.25	S	02-16-04	02-16-04
ATELWS#5269	SB.2004.60.1		Chromium	ND	mg/L	1	0.25	S	02-16-04	02-16-04
ATELWS#5269	SB.2004.60.1		Lead	ND	mg/L	1	0.5	S	02-16-04	02-16-04
ATELWS#5269	SB.2004.60.1		Selenium	ND	mg/L	1	0.75	S	02-16-04	02-16-04
ATELWS#5269	SB.2004.60.1		Silver	ND	mg/L	1	0.5	S	02-16-04	02-16-04
0401327-01A		**SW846 1311/7470A CVAA TCLP**						By: ROH		
ATELWS#5277	SB.2004.61.1		Mercury	ND	mg/L	1	0.002	S	02-16-04	02-16-04
0401327-01A		**SW846 Sect. 7.3**						By: NJL		
WD432	WC.2004.280.3	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		02-02-04	02-03-04
WD432	WC.2004.279.2		Sulfide, Reactive	ND	mg / Kg	1	500		02-02-04	02-03-04
0401327-01A		**SW846-9045C**						By: NJL		
SPH04006	WC.2004.283.9		pH	7.0	units	1	0.1	2	01-29-04	01-29-04
SPH04006	WC.2004.283.9		solid pH measured in water @	21.6	deg C	1	0		01-29-04	01-29-04
0401327-01B		**SW846 3580A/8270C SVOCs by GC/MS TCLP**						By: DS		
X0454	XG.2004.191.8	106-46-7	1,4-Dichlorobenzene	ND	mg / L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	95-95-4	2,4,5-Trichlorophenol	ND	mg / L	1	100		01-27-04	02-02-04
X0454	XG.2004.191.8	88-06-2	2,4,6-Trichlorophenol	ND	mg / L	1	100		01-27-04	02-02-04
X0454	XG.2004.191.8	121-14-2	2,4-Dinitrotoluene	ND	mg / L	1	100		01-27-04	02-02-04

ACCREDITED

SQLCoyote: Reports 1.0.0310221500XX Report Date 2/18/2004 2:54:03 PM

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **DUKE ENERGY SERVICES-NASH BOOSTER**
Order: **0401327 CRI01** Receipt: **01-20-04**

Sample: ***NASH BOOSTER DRUMS*** Collected: *01-14-04 14:00:00* By: *LW*
Matrix: ***SLUDGE***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0401327-01B		**SW846 3580A/8270C SVOCs by GC/MS TCLP**						By: DS		
X0454	XG.2004.191.8	118-74-1	Hexachlorobenzene	ND	mg/L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	87-68-3	Hexachlorobutadiene	ND	mg/L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	67-72-1	Hexachloroethane	ND	mg/L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8		m-Cresol & p-Cresol	15	mg/L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	98-95-3	Nitrobenzene	ND	mg/L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	95-48-7	o-Cresol	ND	mg/L	1	10		01-27-04	02-02-04
X0454	XG.2004.191.8	87-86-5	Pentachlorophenol	ND	mg/L	1	100		01-27-04	02-02-04
X0454	XG.2004.191.8	110-86-1	Pyridine	ND	mg/L	1	100		01-27-04	02-02-04
0401327-01B		**SW846 5030A/8260B Purgeable VOCs by GC/MS TCLP**						By: VA/CWJ		
X0449	XG.2004.148.4	75-35-4	1,1 Dichloroethylene	ND	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	107-06-2	1,2 Dichloroethane (EDC)	ND	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	71-43-2	Benzene	0.14	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	56-23-5	Carbon tetrachloride	ND	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	108-90-7	Chlorobenzene	ND	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	67-66-3	Chloroform	ND	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	78-93-3	Methyl ethyl ketone	ND	mg/L	1	0.25		01-28-04	01-28-04
X0449	XG.2004.148.4	127-18-4	Tetrachloroethylene	0.16	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	79-01-6	Trichloroethylene	ND	mg/L	1	0.05		01-28-04	01-28-04
X0449	XG.2004.148.4	75-01-4	Vinyl chloride	ND	mg/L	1	0.05		01-28-04	01-28-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 This sample was utilized for the matrix spike and duplicate. Please note that the recoveries were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

2 The pH batch was analyzed at 12:05 on 1/29/04.

MEMO: Please note that the sample cooler was received with melted ice.

The TCLP Metals were subcontracted to Aqua Tech Environmental Laboratories.

Chain of Custody Record

ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6800

117 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab Job No.: 041132 Date: 1/20/04

Page 1 of 1

Client: Duke Energy Field Services
Address: 3300 N. "A" St. Bldg. 7
City / State / Zip: Midland, TX 79705
Project Name / Number: Nash Booster
Contract / Purchase Order / Quote:

Project Manager / Contact: Lynn Ward
Telephone No.: 432/620-4207
Fax No.: 432/620-4162
Samplers : (signature): Lynn Ward

Analysis Required

AALI Position Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation: Type	Preservation: Chemical	No. of Containers	TCLP Metals	RCI	Remarks
041132-3	Nash Booster Drums	1/14/04	1400	Sludge	2-8oz	ice		2	X	X	

Relinquished by:
Signature: Lynn Ward
Printed: Lynn Ward
Company: DEFS
Reason: Waste Charact.

Date: 1/15/04
Time: 1953

Received by:
Signature: Don Parsons
Printed: David Parsons
Company: CRI
Reason:

Relinquished by:
Signature: Don Parsons
Printed: David Parsons
Company: CRI
Reason:

Date: 1-16-04
Time: 800

Received by: 1-20-04 10:25
Signature:
Printed:
Company:
Reason:

Method of Shipment: broke custody seal @ 10:30AM - DMR - 1/20/04
Shipment No.:
Special Instructions: Bill to CRI Hobbs N.M.

Comments: Please composite the samples together to make one sample. Lynn Ward

After analysis, samples are to be:
- [X] Disposed of (additional fee)
- [ ] Stored (30 days max)
- [ ] Stored over 30 days (additional fee)
- [ ] Returned to customer

ASSAIGAI PROJECT FILE

ExxonMobil MATERIAL SAFETY DATA BULLETIN

602466-00 MOBIL PEGASUS 805

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805
SUPPLIER: EXXONMOBIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411
24 - Hour Transportation Emergency (Primary) CHEMTREC: 800-424-9300
(Secondary) 281-834-3296
Product and Technical Information:
Lubricants and Specialties: 800-662-4525 800-443-9966
Fuels Products: 800-947-9147
MSDS Fax on Demand: 613-228-1467
MSDS Internet Website: http://emmsds.ihssolutions.com/

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

None.

OTHER INGREDIENTS:

Substance Name	Approx. Wt%
POLY BUTENYL SUCCINIMIDE	1-5

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).

EMERGENCY OVERVIEW: Light Amber Liquid. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

(Section continued next page)

ExxonMobil MATERIAL SAFETY DATA BULLETIN

for further health effects/toxicological data, see Section 11.

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. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury)
INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.
INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.
COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.
Flash Point C(F): > 245(473) (ASTM D-92).
Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0%
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center 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:
LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

(Section continued next page)

ExxonMobil MATERIAL SAFETY DATA BULLETIN

WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.
ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.
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: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.
SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.
EMPTY CONTAINER WARNING: Empty containers retain residue (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. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m3 (as oil mist)- ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.
RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.
EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.
SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

ExxonMobil MATERIAL SAFETY DATA BULLETIN

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid
COLOR: Light Amber
ODOR: Marketable
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 288(550)
MELTING POINT C(F): NA
FLASH POINT C(F): > 245(473) (ASTM D-92)
FLAMMABILITY (solids): NE
AUTO FLAMMABILITY C(F): NA
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: < 0.1
VAPOR DENSITY: > 2.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.89
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: > 3.5
VISCOSITY AT 40 C, cSt: 130.0
VISCOSITY AT 100 C, cSt: 13.5
POUR POINT C(F): < -12(10)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only
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 and high energy sources of ignition.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.
HAZARDOUS POLYMERIZATION: Will not occur.

ExxonMobil MATERIAL SAFETY DATA BULLETIN

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: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

---CHRONIC TOXICOLOGY (SUMMARY)---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: 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 Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with

(Section continued next page)

ExxonMobil MATERIAL SAFETY DATA BULLETIN

negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

---SENSITIZATION (SUMMARY)---

Not expected to be sensitizing based on tests of this product, components, or similar products.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

ECOTOXICITY: Available ecotoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

MOBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

PERSISTENCE AND DEGRADABILITY: This product is expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. 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. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

ExxonMobil MATERIAL SAFETY DATA BULLETIN

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

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 subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
ZINC (ELEMENTAL ANALYSIS) (0.03%)	7440-66-6	22
PHOSPHORODITHOIC ACID, O,O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) (0.33%)	68649-42-3	22

--- 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

(Section continued next page)

ExxonMobil MATERIAL SAFETY DATA BULLETIN

3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

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

16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INDUSTRIAL LABEL

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

****

For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: A, TRN: 602466-00, ELIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 24SEP2002

****

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF

(Section continued next page)

ExxonMobil **MATERIAL SAFETY DATA BULLETIN**

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MATERIAL SAFETY DATA BULLETIN

MOBIL PEGASUS 485

"505"

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 485
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411
24 - Hour Transportation Emergency (Primary) CHEMTREC: 800-424-9300
(Secondary) 281-834-3296
Product and Technical Information: 800-662-4525 703-846-6693
MSDS Fax on Demand: 613-228-1467, other MSDS information: 856-224-4644

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

Substance Name	Approx. Wt%
SULFONIC ACIDS, PETROLEUM, CALCIUM SALTS (SYNTHETIC) (61789-86-4)	1-5

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).

EMERGENCY OVERVIEW: Dark Amber Liquid. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

For further health effects/toxicological data, see Section 11.

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. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury)

INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.

INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

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

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 232(450) (ASTM D-92).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0%

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

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center 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:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent liquid from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

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: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (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. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m3 (as oil mist)- ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.
RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.
EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.
SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

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): > 288(550)
MELTING POINT C(F): NA
FLASH POINT C(F): > 232(450) (ASTM D-92)
FLAMMABILITY (solids): NE
AUTO FLAMMABILITY: NA
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: 0.887
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: > 3.5
VISCOSITY AT 40 C, cSt: 126.0
VISCOSITY AT 100 C, cSt: 13.3
POUR POINT C(F): < -15(5)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only
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 and high energy sources of ignition.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.
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: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

---CHRONIC TOXICOLOGY (SUMMARY)---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: 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 Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

---SENSITIZATION (SUMMARY)---

Not expected to be sensitizing based on tests of this product, components, or similar products.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products. When released into the environment, adsorption to sediment and soil will be the predominant behavior. Available ecotoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product. Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal. This product is expected to be inherently biodegradable.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. 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. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

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 subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
ZINC (ELEMENTAL ANALYSIS) (<0.03%)	7440-66-6	22
PHOSPHORODITHOIC ACID, O,O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) (0.26%)	68649-42-3	22

--- REGULATORY LISTS SEARCHED ---

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

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

16. OTHER INFORMATION

USE: NATURAL GAS ENGINE OIL

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INDUSTRIAL LABEL

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

****
For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: A, TRN: 605816-00, ELIS: 400274, CMCS97: 970607, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 21AUG2001
****

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END OF DOCUMENT

W/corate 2845

MATERIAL SAFETY DATA SHEET

Date Prepared: 02/25/02
Date Printed: 11/19/02
MSDS No: 301.0379181-001.001

COMPRESSOR ENGINE COOLANT 70-30 Dreen

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: COMPRESSOR ENGINE COOLANT 70-30
SAP Material No: 6601334 000 008
General or Generic ID: SOLVENT BLEND

Company
Ashland
Ashland Distribution Co. &
Ashland Specialty Chemical Co.
P. O. Box 2219
Columbus, OH 43216
614-790-3333

Emergency Telephone Number:
1-800-ASHLAND (1-800-274-5263)
24 hours everyday

Regulatory Information Number:
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
WATER	7732-18-5	68.0- 72.0
ETHYLENE GLYCOL	107-21-1	29.0- 29.0
CORRATE 2S AS		1.0- 3.2

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye
Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin
Can cause severe skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Although rare, skin contact with ethylene glycol may cause allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

Swallowing
Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Liver, kidney and brain damage in humans has resulted from swallowing lethal or near-lethal amounts of ethylene glycol.

Inhalation
It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

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Symptoms of Exposure
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, involuntary eye movement, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), lung edema (fluid buildup in the lung tissue), kidney damage, liver damage, convulsions, coma, and death.

Target Organ Effects
Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: reproductive effects, liver damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: kidney damage, liver damage.

Developmental Information
Ethylene glycol has caused birth defects in animal studies at high oral doses. However, it did not cause harm to the pregnant animal or to the fetus when applied to the skin of the pregnant animal.

Cancer Information
This material is not expected to cause cancer in humans since it did not cause cancer in laboratory animals. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Other Health Effects
No data

Primary Route(s) of Entry
Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion - Industrial products are not meant to be swallowed.

4. FIRST AID MEASURES

Eyes
If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin
Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing
Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

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Inhalation
If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians
This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body. Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnia, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions), liver, kidney, central nervous system. Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

5. FIRE FIGHTING MEASURES

Flash Point
> 200.0 F (93.3 C) TCC

Explosive Limit
No data

Autoignition Temperature
No data

Hazardous Products of Combustion
May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards
Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

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COMPRESSOR ENGINE COOLANT 70-30

Extinguishing Media
alcohol foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions
Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating
Health - 1, Flammability - 1, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill
Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

Large Spill
Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks).

7. HANDLING AND STORAGE

Handling
Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage
Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection
Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

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Skin Protection
Wear impervious gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious full-body protective clothing.

Respiratory Protections
If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines
Component

WATER (7732-18-5)
No exposure limits established

ETHYLENE GLYCOL (107-21-1)
OSHA VPEL 50.000 ppm - Ceiling
ACGIH TLV 100.000 mg/m3 - Ceiling as an aerosol

CORRATE 28 AS
No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point
(for component) 212.0 F (100.0 C)

Vapor Pressure
(for component) 27.000 mmHg

Specific Vapor Density
> 1.000 @ AIR=1

Specific Gravity
1.007 - 1.049 @ 68.00 F

Liquid Density
8.560 lbs/gal @ 68.00 F
1.007 - 1.049 kg/l @ 20.00 C

Percent Volatiles
No data

Evaporation Rate
SLOWER THAN ETHYL ETHER

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COMPRESSOR ENGINE COOLANT 70-30

Appearance
CLEAR AND PARTICLE FREE

State
LIQUID

Physical Form
HOMOGENEOUS SOLUTION

Color
WATER WHITE

Odor
No data

pH
No data

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition
May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability
Stable.

Incompatibility
Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information
Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

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COMPRESSOR ENGINE COOLANT 70-30

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,8,UN3266,I

Container/Mode:
55 GAL DRUM/TRUCK PACKAGE

NOS Component:
SODIUM HYDROXIDE

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs)	Component
16038	ETHYLENE GLYCOL

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status
TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs)
ETHYLENE GLYCOL	5000

SARA 302 Components - 40 CFR 355 Appendix A
Not applicable

Section 311/312 Hazard Class - 40 CFR 370.2
Immediate(X) Delayed(X) Fire(X) Reactive( ) Sudden Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)	CAS Number	%
ETHYLENE GLYCOL	107-21-1	28.84

OSHA Process Safety Management 29 CFR 1910
None listed

EPA Accidental Release Prevention 40 CFR 68
None listed

International Regulations

Inventory Status
Not determined

State and Local Regulations

California Proposition 65
The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.
1,4-DIOXANE
ETHYLENE OXIDE
ACETALDEHYDE

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MSDS No: 301.0379181-001.001

COMPRESSOR ENGINE COOLANT 70-30

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause reproductive harm.
ETHYLENE OXIDE

New Jersey RTK Label Information
ETHYLENE GLYCOL 107-21-1

Pennsylvania RTK Label Information
1,2-ETHANEDIOL 107-21-1

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No ☐	4. Generator Duke Energy Field Services, LP
	5. Originating Site Magnum Booster
2. Management Facility Destination Controlled Recovery Incorporated	6. Transporter Controlled Recovery Inc.
3. Address of Facility Operator P.O. Box 388, Hobbs, New Mexico	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Magnum Booster, Section 9, Township 20S, Range 29E, approximately 2 miles northwest of Loco Hills, New Mexico in Eddy County.	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

Ref. 02-26-04

RCRA non-exempt, non-hazardous dirt. See attached analytical report.

FEB 2004
RECEIVED
Hobbs
OCD

This approval is for one time.

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

SIGNATURE Kim Flowers TITLE: Rep. DATE: 02/26/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. 393-1079

E-MAIL ADDRESS david@crihobbs.com

03064-2

(This space for State Use)

APPROVED BY: _____ TITLE: ENVIRO ENGR DATE: 2.27.04

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 3-3-04

Duke Energy®
Field Services

DUKE ENERGY FIELD SERVICES
3300 North A Street
Building 7
Midland, TX 79705

432 620 4000

February 24, 2004

Dave Parsons
Controlled Recovery Inc.
P.O. Box 88
Hobbs, NM 88241

RE: Certificate of Waste Status and Request for Approval to Accept Solid Waste
Duke Energy Field Services, LP
Magnum Booster

Dear Dave:

Duke Energy Field Service, LP (DEFS) requests approval to dispose of soils generated by cleanup around equipment at the Magnum Booster site. Please find enclosed the following:

- Certificate of Waste Status
- Request for Approval to Accept Solid Waste (NMOCD C-138)
- Laboratory Analytical

DEFS appreciates your consideration of this request and understands that you will seek NMOCD approval of this request. Please send a copy of the final approval forms to my attention at the following address (**please note new address**).

Lynn Ward
Duke Energy Field Services, LP
10 Desta Dr., Suite 400-W
Midland, TX 79705

If you have any questions regarding this request, please call me at 432/620-4207.

Sincerely,
Duke Energy Field Services, LP

Lynn Ward
Sr. Environmental Specialist
Western Division

Cc: G. Kardos
R. Counts
K. Char-Kimura
File 4.1.9

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Duke Energy Field Services

ADDRESS 10 Desta Dr., Suite 400-W, Midland, TX 79705

GENERATING SITE Magnum Booster

COUNTY Eddy STATE NM

TYPE OF WASTE Non-haz, Non-exempt

ESTIMATED VOLUME 1 cy. yd

GENERATING PROCESS Cleanup of contaminated soils around booster site

REMARKS See attached analytical

NMOCD FACILITY CRI

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Lynn Ward
SIGNATURE

NAME Lynn Ward
PRINTED

ADDRESS 10 Desta Dr., Suite-400W

Midland, TX 79705

DATE 2/24/04

ASSAIGAI ANALYTICAL LABORATORIES, INC.
4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CRI
attn: DAVID PARSONS
BOX 388
HOBBS NM 88241

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **MAGNUM- DUKE ENERGY FIELD SERVICES**
Order: **0402016 CRI01** Receipt: **02-02-04**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: ***MAGNUM/ DRUM*** Collected: *01-27-04 11:00:00* By: *LP*
Matrix: ***SOIL***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402016-01A		**SW846 1010**						By: RAC		
SFLASH-04-05	WC.2004.313.4		Flashpoint	>60.0	Deg C	1	20		02-03-04	02-03-04
0402016-01A		**SW846 Sect. 7.3**						By: NJL		
W0432	WC.2004.280.6	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		02-02-04	02-03-04
W0432	WC.2004.279.5		Sulfide, Reactive	ND	mg / Kg	1	500		02-02-04	02-03-04
0402016-01A		**SW846 9045C**						By: NJL		
SPH04007	WC.2004.275.5		pH	7.9	units	1	0.1	1	02-02-04	02-02-04
SPH04007	WC.2004.275.5		solid pH measured in water @	20.9	deg C	1	0		02-02-04	02-02-04
0402016-01B		**SW846 1311/3010A/6010B ICP TCLP**						By: KDW		
M04184	MT.2004.280.18	7440-38-2	Arsenic	ND	mg / L	5	0.2		02-10-04	02-12-04
M04184	MT.2004.280.18	7440-39-3	Barium	ND	mg / L	5	0.2		02-10-04	02-12-04
M04184	MT.2004.280.18	7440-43-9	Cadmium	ND	mg / L	5	0.02		02-10-04	02-12-04
M04184	MT.2004.280.18	7440-47-3	Chromium	ND	mg / L	5	0.02		02-10-04	02-12-04
M04184	MT.2004.280.27	7439-92-1	Lead	ND	mg / L	5	0.1		02-10-04	02-12-04
M04184	MT.2004.280.18	7782-49-2	Selenium	ND	mg / L	5	0.05		02-10-04	02-12-04
M04184	MT.2004.280.18	7440-22-4	Silver	ND	mg / L	5	0.04		02-10-04	02-12-04
0402016-01B		**SW846 1311/3510B/8270C SVOCs by GC/MS TCLP**						By: DS		
X0471	XG.2004.257.2	106-46-7	1,4-Dichlorobenzene	ND	mg / L	1	0.001		02-11-04	02-12-04
X0471	XG.2004.257.2	95-95-4	2,4,5-Trichlorophenol	ND	mg / L	1	0.01		02-11-04	02-12-04
X0471	XG.2004.257.2	88-06-2	2,4,6-Trichlorophenol	ND	mg / L	1	0.01		02-11-04	02-12-04
X0471	XG.2004.257.2	121-14-2	2,4-Dinitrotoluene	ND	mg / L	1	0.01		02-11-04	02-12-04
X0471	XG.2004.257.2	118-74-1	Hexachlorobenzene	ND	mg / L	1	0.001		02-11-04	02-12-04
X0471	XG.2004.257.2	87-68-3	Hexachlorobutadiene	ND	mg / L	1	0.001		02-11-04	02-12-04

SQLCoyote: Reports 1.0.0310221500XX *Report Date 2/20/2004 9:13:53 AM*

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **MAGNUM- DUKE ENERGY FIELD SERVICES**
Order: **0402016 CRI01** Receipt: **02-02-04**

Sample: ***MAGNUM/ DRUM*** Collected: *01-27-04 11:00:00* By: *LP*
Matrix: ***SOIL***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0402016-01B		**SW846 1311/3510B/8270C SVOCs by GC/MS TCLP**						By: DS		
X0471	XG.2004.257.2	67-72-1	Hexachloroethane	ND	mg / L	1	0.001		02-11-04	02-12-04
X0471	XG.2004.257.2		m-Cresol & p-Cresol	ND	mg / L	1	0.001		02-11-04	02-12-04
X0471	XG.2004.257.2	98-95-3	Nitrobenzene	ND	mg / L	1	0.001		02-11-04	02-12-04
X0471	XG.2004.257.2	95-48-7	o-Cresol	ND	mg / L	1	0.001		02-11-04	02-12-04
X0471	XG.2004.257.2	87-86-5	Pentachlorophenol	ND	mg / L	1	0.01		02-11-04	02-12-04
X0471	XG.2004.257.2	110-86-1	Pyridine	ND	mg / L	1	0.01		02-11-04	02-12-04
0402016-01B		**SW846 1311/7470A CVAA TCLP**						By: DAH		
M04196	MT.2004.276.12	7439-97-6	Mercury	ND	mg / L	1	0.0002		02-11-04	02-11-04
0402016-01B		**SW846 1311/8260B Purgeable VOCs by GC/MS TCLP**						By: CWJ		
X0446	XG.2004.292.9	75-35-4	1,1 Dichloroethylene	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	71-43-2	Benzene	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	56-23-5	Carbon tetrachloride	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	108-90-7	Chlorobenzene	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	67-66-3	Chloroform	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	78-93-3	Methyl ethyl ketone	ND	mg / L	1	0.005		02-12-04	02-12-04
X0446	XG.2004.292.9	127-18-4	Tetrachloroethylene	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	79-01-6	Trichloroethylene	ND	mg / L	1	0.001		02-12-04	02-12-04
X0446	XG.2004.292.9	75-01-4	Vinyl chloride	0.002	mg / L	1	0.001	B	02-12-04	02-12-04

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 pH was analyzed at 14:25 on 2/2/04.

MEMO: Please note that the sample cooler was received at 18 degrees Celcius.

ASSAIGAI ANALYTICAL LABORATORIES, INC.

Chain of Custody Record

4301 Masthead N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab Job No.: 0402016 Date: 2/2/04

Page ____ of ____

Client: Duke Energy Field Services
Address: 3300 N. A St., Bldg. 7
City / State / Zip: Midland, TX 79705
Project Name / Number: Magnum
Contract / Purchase Order / Quote: ____

Project Manager / Contact: Lynn Ward
Telephone No.: 432/620-4207
Fax No.: 432/620-4162
Samplers: (signature) Lynn Ward

AAL Position Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TCLP Waste Sample	RCI								Remarks
01 A-B	Magnum / Drum	1/27/04	1100	Soil		ice		2	X	X								

OFFICE USE ONLY

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: Lynn Ward Printed: Lynn Ward Company: DEFS Reason: waste charact.	Date: 1/27/04 Time: 5:00 pm	Signature: David Parsons Printed: David Parsons Company: CRI Reason:	Signature: Printed: Company: Reason:	Date: 2/2/04 Time: 950 AM	Signature: [illegible] Printed: [illegible] Company: AAL Reason: analysis

Method of Shipment: ____
Shipment No.: Cooler temp. 16
Special Instructions: Cooler sat down @ 950 AM on 2/2/04 - DUR -

Comments: For Results to CRI

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

ASSAIGAI PROJECT FILE

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
FEB 11 2004
OIL CONSERVATION DIVISION

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Chemplex, L.C.
	5. Originating Site Snyder, TX
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State Texas
7. Location of Material (Street Address or ULSTR) Snyder, TX , Scurry County	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 02-05-04

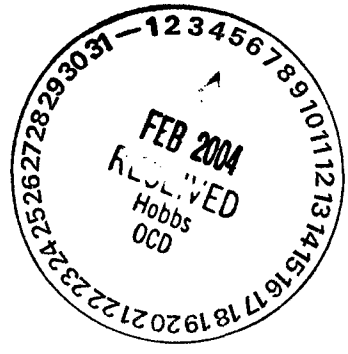
Plexslick 982C,Plexslick 967,Plexslick 961

Friction reducer for brines or acid.

Enclosed is non-exempt certificate of waste status and MSDS sheets.

This approval is for one time.

Estimated Volume 13 totes. Known Volume (to be entered by the operator at the end of the haul) _____cy



SIGNATURE Kim Flowers TITLE: Rep DATE: 02-05-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

02#304-1

(This space for State Use)

APPROVED BY: W Johnson TITLE: Envirо Engr DATE: 2.6.04

APPROVED BY: Martyn J Kitz TITLE: Environmental Geologist DATE: 2-13-04

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Chemplex, L.C.

ADDRESS P.O. Box 1071, Snyder, TX 79550

GENERATING SITE Snyder Yard

COUNTY Scurry STATE TX

TYPE OF WASTE Oilfield Polymer

ESTIMATED VOLUME 4000 gallons

GENERATING PROCESS Unused chemical returned from jobs may contain incidental rain water and or dirt.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Robert C. Fortson
PRINTED

ADDRESS 2809 SCR 1257

Midland TX 79706

DATE 2/13/04

Material Safety Data Sheet

NFPA	Protective Clothing	DOT
		

Section I: Product Identification and Uses

Common/Trade name	**Plexslick 982C**	CI#	Not applicable.
Synonyms	Not available.	TSCA	TSCA 8(b) inventory: All products listed.
Chemical name	Cationic Polyacrylamide emulsion	CAS#	Mixture.
Chemical formula	Not applicable.	Code	[illegible]
Chemical family	Aliphatic amide	Molecular weight	Not applicable.
Supplier	[illegible]	Manufacturer	Chemplex, L.C. P.O. Box 1071 306 CR 137 Snyder, Tx 79550 (915) 573-7298
Material uses	Friction reducer for brines or acid.		

Section II: First Aid Measures

Eye contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
Skin contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Hazardous skin contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Slight inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Slight ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous ingestion	Not available.

Section II. Hazardous Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC_{50}/LD_{50}
1) No hazardous ingredient				

Section III. Physical Data

Physical state and appearance	Milky liquid.	Odor	Slight hydrocarbon oil
pH (1% soln/water)	Slightly acidic	Taste	Not available.
Odor threshold	Not available.	Color	White. Off-white.
Volatility	Not available.		
Melting point	Not available.		
Boiling point	>212°F		
Specific gravity	1.04 (Water = 1)		
Vapor density	Not available.		
Vapor pressure	Not available.		
Evaporation rate	Not available.		
Viscosity	Not available.		
$LogK_{ow}$	The product is much more soluble in oil.		
Ionicity (surface active agent)	Cationic		
Critical temperature	Not available.		
Instability temperature	Not available.		
Conditions of instability	Not available.		
Dispersion properties	Not available		
Solubility	Solubility in water limited by viscosity.		

Section IV. Fire and Explosion Data

The product is:	May be combustible at high temperature.
Auto-ignition temperature	Not available.
Fire degradation products	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).
Flash points	>200°F.
Flammable limits	Not available.
Fire extinguishing procedures	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Spilled material will result in extremely slippery surfaces, particularly if wet.
Flammability	Potentially flammable in presence of oxidizing materials.
	Remark Not available.
Risks of explosion	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
	Remark Not available.

Section V. Reactivity Data

Stability	The product is stable.
Hazardous decomp. products	Not available.
Degradability	Not available.
Products of degradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are less toxic than the product itself.
	Remark Not available.
Corrosivity	Non-corrosive in presence of glass.
	Remark Not available.
Reactivity	Reactive with oxidizing agents.
	Remark No remark.

Section VI. Toxicological Properties

Routes of entry	Dermal contact. Eye contact. Inhalation. Ingestion.
TLV	Not available. Consult local authorities for acceptable exposure limits.
Toxicity for animals	Acute oral toxicity: LD50>5000 mg/kg (rat) **Remark** Not available.
Chronic effects on humans	Not available. **Remark** Not available.
Acute effects on humans	May be skin irritant. **Remark** No remark.

Section VII. Preventive Measures

Waste disposal	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. Avoid freezing.
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place.
Precautions	Keep locked up Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as oxidizing agents, acids, alkalis, moisture.
Small spill and leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Contaminated surfaces may be very slippery.
Large spill and leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Wash up residue with large amounts of water; wet product will be extremely slippery.
Protective Clothing	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section VIII. Classification

DOT Not a DOT controlled material (United States).

Not DOT regulated

Remark
Not available.

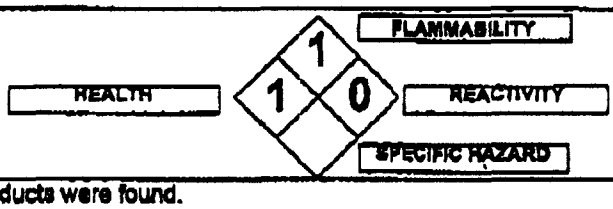
Maritime transportation Not available.

Remark
Not available.

HCS Not an HCS controlled material in USA.

Remark
Not available.

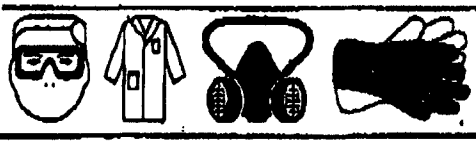
NFPA



Federal and State Regulations No products were found.

Section IX. Protective Clothing

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.



h

Section X. Other Information

References Not available.

Validated by Chemplex on 6/16/2000.

Verified by Chemplex.

Printed 6/16/2000.

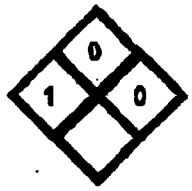
Emergency Response (800) 633-8253

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

MATERIAL SAFETY DATA SHEET

Plexslick 967

NFPA



1. Product And Company Identification

Supplier	Manufacturer
Chemplex, L.C. P.O. Box 1071 506 CR 137 Snyder, TX 79550 United States Telephone Number: (325) 573-7298 FAX Number: (325) 573-3340	Chemplex, L.C. P.O. Box 1071 506 CR 137 Snyder, TX 79550 United States Telephone Number: (325) 573-7298 FAX Number: (325) 573-3340
Supplier Emergency Contacts & Phone Number (800) 633-8253	**Manufacturer Emergency Contacts & Phone Number** (800) 633-8253

Issue Date: 12/09/2003

Product Name: Plexslick 967
Chemical Name: Anionic Polyacrylamide emulsion
CAS Number: Not Established
Chemical Family: Aliphatic amide
MSDS Number: 99

Product/Material Uses
Not available.

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
PETROLEUM DISTILLATE	64742-47-8		20 - 30

3. Hazards Identification

Primary Routes(s) Of Entry
Dermal contact. Eye contact. Ingestion. Inhalation.

4. First Aid Measures

Eye
Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper lower eyelids.

Skin
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and

4. First Aid Measures - Continued

Skin - Continued

groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
HAZARD SKIN CONTACT: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Ingestion

Slight Ingestion: DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie belt or waistband. If the victim is not breathing perform mouth-to-mouth resusictation. Seek immediate medical attention.
Hazard Ingestion: DO NOT INDUCE VOMITING. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waist band. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Inhalation

Slight Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waist band. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

5. Fire Fighting Measures

Flash Point: >200 °F

Fire And Explosion Hazards

Flammable in presence of oxidizing materials.

Fire Fighting Instructions

SMALL FIRE: Use DRY chemicals powder.
LARGE FIRE: Use water spray, foam or fog. Do not use water jet. Product will become very slippery when contacted with water.

6. Accidental Release Measures

Small Spill and Leak: Absorb with an inert DRY material and place in an appropriate waste disposal container. Water will cause residue to become extremely slippery.
Large Spill and Leak: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling And Storage

Handling And Storage Precautions

Keep container dry, keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep at above 35°F.
Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, and moisture.

MATERIAL SAFETY DATA SHEET

Plexslick 967

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Eye/Face Protection
Splash goggles.

Skin Protection
Apron/Lab coat, gloves.

Respiratory Protection
Vapor respirator
Be sure to use an approved/certified respirator or equivalent.

Ingredient(s) - Exposure Limits
PETROLEUM DISTILLATE
ACGIH TLV-STEL 500 ppm (Notice of Intended Change)
ACGIH TLV-STEL 400 ppm (Proposed)
ACGIH TLV-TWA 400 ppm (Notice of Intended Change)
ACGIH TLV-TWA 200 ppm (Proposed)
OSHA PEL-TWA 400 ppm

9. Physical And Chemical Properties

Appearance
Milky white liquid.

Odor
Faintly piney.

Chemical Type: Mixture
Boiling Point: 105 °C
Specific Gravity: 0.90 (water=1)
pH Factor: Neutral

10. Stability And Reactivity

Stability: This product is stable.

Conditions To Avoid (Stability)
Reactive with oxidizing agents, moisture.

11. Toxicological Information

Skin Effects
Hazardous in case of skin contact (irritant).

Acute Oral Effects
Hazardous in case of ingestion.

Ingredient(s) - Carginogenicity
PETROLEUM DISTILLATE
Listed in The IARC Monographs

MATERIAL SAFETY DATA SHEET

Plexslick 967

12. Ecological Information

No Data Available...

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Proper Shipping Name

Not DOT Regulated

15. Regulatory Information

U.S. Regulatory Information

Not DOT Regulated.

Ingredient(s) - State Regulations

PETROLEUM DISTILLATE

- New Jersey - Workplace Hazard
- New Jersey - Special Hazard
- Pennsylvania - Workplace Hazard
- Massachusetts - Hazardous Substance
- New York City - Hazardous Substance

16. Other Information

NFPA Rating

Health: 1
Fire: 0
Reactivity: 0

Revision/Preparer Information

MSDS Preparer: Dr. Edward F. Vinson
MSDS Preparer Phone Number: 915-573-7298
This MSDS Supercedes A Previous MSDS Dated: 07/10/2002

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

Chemplex, L.C.

Printed Using MSDS Generator™ 2000

MATERIAL SAFETY DATA SHEET

Plexslick 961

NFPA

1. Product And Company Identification

Supplier
Chemplex, L.C.
P.O. Box 1071
506 CR 137
Snyder, TX 79550 United States

Telephone Number: (325) 573-7298
FAX Number: (325) 573-3340

Manufacturer
Chemplex, L.C.
P.O. Box 1071
506 CR 137
Snyder, TX 79550 United States

Telephone Number: (325) 573-7298
FAX Number: (325) 573-3340

Supplier Emergency Contacts & Phone Number
(800) 633-8253

Manufacturer Emergency Contacts & Phone Number
(800) 633-8253

Issue Date: 01/30/2003

Product Name: Plexslick 961
Chemical Name: Anionic Polyacrylamide emulsion
CAS Number: Not Established
Chemical Family: Aliphatic amide
MSDS Number: 211

Product/Material Uses
Friction reducer for water.

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
PETROLEUM DISTILLATE	64742-47-8		20 - 30

3. Hazards Identification

Primary Routes(s) Of Entry
Dermal contact. Eye contact. Ingestion. Inhalation.

Ingestion Hazards
Hazardous in case of ingestion.

Inhalation Hazards
Hazardous in case of skin contact. (Irritant)

4. First Aid Measures

Eye

Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper lower eyelids.

Skin

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
HAZARD SKIN CONTACT: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Ingestion

DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie belt or waistband. If the victim is not breathing perform mouth-to-mouth resusictation. Seek immediate medical attention.

Inhalation

Slight Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waist band. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

5. Fire Fighting Measures

Flash Point: >200 °F

Fire And Explosion Hazards

Flammable in presence of oxidizing materials.

Fire Fighting Instructions

SMALL FIRE: Use DRY chemicals powder.
LARGE FIRE: Use water spray, foam or fog. Do not use water jet. Product will become very slippery when contacted with water.

6. Accidental Release Measures

Small Spill and Leak: Absorb with an inert DRY material and place in an appropriate waste disposal container. Water will cause residue to become extremely slippery.
Large Spill and Leak: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling And Storage

Handling And Storage Precautions

Keep container dry, keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep at above 35°F.
Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the

7. Handling And Storage - Continued

Handling And Storage Precautions - Continued

label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, and moisture.

Protective Clothing (Pictograms)

8. Exposure Controls/Personal Protection

Eye/Face Protection

Splash goggles.

Skin Protection

Apron/Lab coat, gloves.

Respiratory Protection

Vapor respirator

Be sure to use an approved/certified respirator or equivalent.

Ingredient(s) - Exposure Limits

PETROLEUM DISTILLATE

ACGIH TLV-STEL 500 ppm (Notice of Intended Change)
ACGIH TLV-STEL 400 ppm (Proposed)
ACGIH TLV-TWA 400 ppm (Notice of Intended Change)
ACGIH TLV-TWA 200 ppm (Proposed)
OSHA PEL-TWA 400 ppm

9. Physical And Chemical Properties

Appearance

Translucent white liquid.

Odor

Hydrocarbon oil.

Chemical Type: Mixture
Boiling Point: 105 °C
Specific Gravity: 1.04 (water=1)
pH Factor: Neutral

10. Stability And Reactivity

Stability: This product is stable.

Conditions To Avoid (Stability)

Reactive with oxidizing agents, moisture.

11. Toxicological Information

Skin Effects

Hazardous in case of skin contact (irritant).

11. Toxicological Information - Continued

Acute Oral Effects
Hazardous in case of ingestion.

Ingredient(s) - Carginogenicity
PETROLEUM DISTILLATE
Listed In The IARC Monographs

12. Ecological Information

No Data Available...

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Proper Shipping Name
Not DOT Regulated

15. Regulatory Information

U.S. Regulatory Information
Not DOT Regulated.

Ingredient(s) - State Regulations
PETROLEUM DISTILLATE
New Jersey - Workplace Hazard
New Jersey - Special Hazard
Pennsylvania - Workplace Hazard
Massachusetts - Hazardous Substance
New York City - Hazardous Substance

16. Other Information

NFPA Rating
Health: 1
Fire: 1
Reactivity: 0

Revision/Preparer Information
MSDS Preparer: Dr. Edward F. Vinson
MSDS Preparer Phone Number: 915-573-7298
This MSDS Supercedes A Previous MSDS Dated: 07/15/2002

Disclaimer

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Disclaimer - Continued
their particular purposes(s). Chemplex, L.C.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Navajo Refining Company
	5. Originating Site Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J Waste Service
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 E Main, Artesia NM	

9. Circle One:

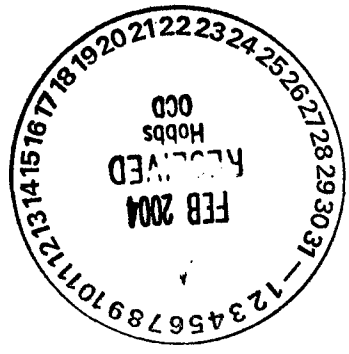
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

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

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

BRIEF DESCRIPTION OF MATERIAL:

RECEIVED
FEB 18 2004
OIL CONSERVATION DIVISION



RE: 02-06-04

Contaminated Soil.

Contaminated soil from excavation of a sewer line for repair.

Enclosed is non-exempt certificate of waste status, Analytical data and Chain-of-Custody.

This approval is for one time.

Estimated Volume 500 yards. Known Volume (to be entered by the operator at the end of the haul) _____cy

SIGNATURE Kim Flowers TITLE: Rep DATE: 02-06-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

02-18-04-01

(This space for State Use)

APPROVED BY: _____ TITLE: Enviro Engr DATE: 2.11.04

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 2-18-04

NAVAJO REFINING COMPANY, L.P.

FAX
(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX
(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

February 6, 2004

Ken Marsh
CRI
P.O. Box 388
Hobbs, NM 88214

Post-it® Fax Note 7671	Date 2/6/04	# of pages ▶ 28
To Ken Marsh	From Charlie Plymale	
Co./Dept. CRI	Co. Navajo Refining	
Phone #	Phone #	
Fax # 505-393-3615	Fax #	

Ken,

I would like to profile contaminated soil from excavation of a sewer line in our crude unit. This material is NON HAZARDOUS and would be transported in 20 yard roll off bins by D & J waste haulers.

Sincerely,

Charlie Plymale
Sr. Environmental Specialist

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Contaminated soil

ESTIMATED VOLUME: 500 yards

GENERATING PROCESS: Contaminated soil from excavation of a sewer line for Repair..

REMARKS:

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: D&J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

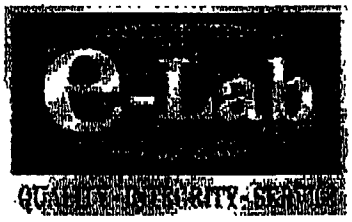
AGENT: _____
SIGNATURE

NAME: Charlie Plymale
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA,NM 88210

DATE: 2/6/04



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

February 04, 2004

Charlie Plymale
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5241
Fax: (505) 746-5421

Re: S.P. Sewer Line-Artesia Work Order : **0401258**

Dear Charlie Plymale,

e-Lab, Inc. received 1 sample on 1/30/2004 9:25:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrice A. Bethoma

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: *February 04, 2004*

CLIENT: Navajo Refining Company
Project: S.P. Sewer Line-Artesia
Work Order: 0401258

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0401258-01	S.P. Sewer Line	Soil		1/28/2004 13:00	1/30/2004 09:25	

e-Lab. Inc. **Date:** *February 04, 2004*

CLIENT: Navajo Refining Company
Project: S.P. Sewer Line-Artesia
Work Order: 0401258

Case Narrative

Batch 7903 Semivolatile LCS/LCSD recovery for Hexachlorobenzene is flagged, but is actually within 10% of the true value (107% and 105%).

e-Lab, Inc.

Date: *February 04, 2004*

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia
Lab ID: 0401258-01

Client Sample ID: S.P. Sewer Line
Collection Date: 1/28/2004 1:00:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP MERCURY		**SW7470**			Prep Date: **2/2/2004**	Analyst: **JCJ**
Mercury	ND	0.00200		mg/L	1	2/3/2004 4:43:22 PM
TCLP METALS, ICP		**SW1311/6020**			Prep Date: **2/2/2004**	Analyst: **ALR**
Arsenic	ND	0.0500		mg/L	10	2/2/2004 6:20:00 PM
Barium	0.991	0.0500		mg/L	10	2/2/2004 6:20:00 PM
Cadmium	ND	0.0500		mg/L	10	2/2/2004 6:20:00 PM
Chromium	ND	0.0500		mg/L	10	2/2/2004 6:20:00 PM
Lead	ND	0.0500		mg/L	10	2/2/2004 6:20:00 PM
Selenium	ND	0.0500		mg/L	10	2/2/2004 6:20:00 PM
Silver	ND	0.0500		mg/L	10	2/2/2004 6:20:00 PM
TCLP SEMIVOLATILES		**SW1311/8270**			Prep Date: **2/2/2004**	Analyst: **HV**
2,4,5-Trichlorophenol	ND	10		µg/L	1	2/3/2004 4:07:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	2/3/2004 4:07:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	2/3/2004 4:07:00 PM
Cresols, Total	ND	30		µg/L	1	2/3/2004 4:07:00 PM
Hexachlorobenzene	ND	10		µg/L	1	2/3/2004 4:07:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	2/3/2004 4:07:00 PM
Hexachloroethane	ND	10		µg/L	1	2/3/2004 4:07:00 PM
Nitrobenzene	ND	10		µg/L	1	2/3/2004 4:07:00 PM
Pentachlorophenol	ND	10		µg/L	1	2/3/2004 4:07:00 PM
Pyridine	ND	10		µg/L	1	2/3/2004 4:07:00 PM
Surr: 2,4,6-Tribromophenol	108	45-146		%REC	1	2/3/2004 4:07:00 PM
Surr: 2-Fluorobiphenyl	96.0	55-120		%REC	1	2/3/2004 4:07:00 PM
Surr: 2-Fluorophenol	49.5	21-110		%REC	1	2/3/2004 4:07:00 PM
Surr: 4-Terphenyl-d14	93.2	42-153		%REC	1	2/3/2004 4:07:00 PM
Surr: Nitrobenzene-d5	89.7	51-117		%REC	1	2/3/2004 4:07:00 PM
Surr: Phenol-d6	33.2	10-110		%REC	1	2/3/2004 4:07:00 PM
TCLP VOLATILES		**SW1311/8260B**			Prep Date: **1/30/2004**	Analyst: **PC**
1,1-Dichloroethene	ND	100		µg/L	20	2/2/2004 6:56:00 PM
1,2-Dichloroethane	ND	100		µg/L	20	2/2/2004 6:56:00 PM
1,4-Dichlorobenzene	ND	100		µg/L	20	2/2/2004 6:56:00 PM
2-Butanone	ND	200		µg/L	20	2/2/2004 6:56:00 PM
Benzene	ND	100		µg/L	20	2/2/2004 6:56:00 PM
Carbon tetrachloride	ND	100		µg/L	20	2/2/2004 6:56:00 PM
Chlorobenzene	ND	100		µg/L	20	2/2/2004 6:56:00 PM
Chloroform	ND	100		µg/L	20	2/2/2004 6:56:00 PM
Tetrachloroethene	ND	100		µg/L	20	2/2/2004 6:56:00 PM
Trichloroethene	ND	100		µg/L	20	2/2/2004 6:56:00 PM
Vinyl chloride	ND	100		µg/L	20	2/2/2004 6:56:00 PM

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

c-Lab, Inc. **Date:** *February 04, 2004*

CLIENT: Navajo Refining Company **Client Sample ID:** S.P. Sewer Line
Work Order: 0401258 **Collection Date:** 1/28/2004 1:00:00 PM
Project: S.P. Sewer Line-Artesia
Lab ID: 0401258-01 **Matrix:** SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	82.2	70-130		%REC	20	2/2/2004 6:56:00 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%REC	20	2/2/2004 6:56:00 PM
Surr: Dibromofluoromethane	87.3	70-130		%REC	20	2/2/2004 6:56:00 PM
Surr: Toluene-d8	93.4	70-130		%REC	20	2/2/2004 6:56:00 PM
CYANIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Cyanide	ND	0.0300		mg/Kg	1	2/4/2004
SULFIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Sulfide	ND	40.0		mg/Kg	1	2/4/2004
IGNITABILITY FOR SOLIDS		**SW846, CHPT. 7.1.2**				Analyst: **LMD**
Burns vigorously and persistently	No				1	1/30/2004
Ignites spontaneously	No				1	1/30/2004
Ignites through friction	No				1	1/30/2004
Ignites under std. temp and pressure	No				1	1/30/2004
Ignites with moisture	No				1	1/30/2004
PH IN SOLID		**SW9045B**				Analyst: **MG**
pH	8.70	0.100		pH Units	1	1/30/2004

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

c-Lab, Inc.

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

Date: *Feb 04 2004*

QC BATCH REPORT

Batch ID: **7893** InstrumentID: **ICP7500**

MBLK Sample ID: **MBLKW1-020204** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **02/02/04 17:10**
Client ID: Run ID: **ICP7500_040202A** SeqNo: **424083** Prep Date: **2/2/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	ND	0.050								
Lead	ND	0.050								
Selenium	ND	0.050								
Silver	ND	0.050								

MBLK Sample ID: **MBLKT1-013004** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **02/02/04 17:20**
Client ID: Run ID: **ICP7500_040202A** SeqNo: **424085** Prep Date: **2/2/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050								
Barium	ND	0.050								
Cadmium	ND	0.050								
Chromium	0.007346	0.050								J
Lead	ND	0.050								
Selenium	0.02378	0.050								J
Silver	ND	0.050								

LCS Sample ID: **MLCSW1-020204** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **02/03/04 13:18**
Client ID: Run ID: **ICP7500_040203A** SeqNo: **424238** Prep Date: **2/2/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2235	0.050	0.2	0	112	80-120	0			
Barium	0.1958	0.050	0.2	0	97.9	80-120	0			
Cadmium	0.2087	0.050	0.2	0	104	80-120	0			
Chromium	0.1625	0.050	0.2	0	81.2	80-120	0			
Lead	0.1711	0.050	0.2	0	85.6	80-120	0			
Selenium	0.2194	0.050	0.2	0	110	80-120	0			
Silver	0.2077	0.050	0.2	0	104	80-120	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: **7893** InstrumentID: **ICP7500**

MS Sample ID: **0401236-09CMS** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **02/02/04 17:45**
Client ID: Run ID: **ICP7500_040202A** SeqNo: **424089** Prep Date: **2/2/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2177	0.050	0.2	0.02126	98.2	75-125	0			
Barium	1.956	0.050	0.2	0.8904	534	75-125	0			SO
Cadmium	0.1879	0.050	0.2	0.0002937	93.8	75-125	0			
Chromium	0.1537	0.050	0.2	0.03076	61.5	75-125	0			S
Lead	0.171	0.050	0.2	0.0009032	85	75-125	0			
Selenium	0.1934	0.050	0.2	0.04699	73.2	75-125	0			S
Silver	0.1881	0.050	0.2	-0.00004061	94.1	75-125	0			

MSD Sample ID: **0401236-09CMSD** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **02/02/04 17:50**
Client ID: Run ID: **ICP7500_040202A** SeqNo: **424090** Prep Date: **2/2/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.2567	0.050	0.2	0.02126	118	75-125	0.2177	16.4	25	
Barium	2.117	0.050	0.2	0.8904	613	75-125	1.958	7.8	25	SO
Cadmium	0.2047	0.050	0.2	0.0002937	102	75-125	0.1879	8.56	25	
Chromium	0.1642	0.050	0.2	0.03076	66.7	75-125	0.1537	6.61	25	S
Lead	0.1839	0.050	0.2	0.0009032	91.5	75-125	0.171	7.27	25	
Selenium	0.23	0.050	0.2	0.04699	91.5	75-125	0.1934	17.3	25	
Silver	0.2006	0.050	0.2	-0.00004061	100	75-125	0.1881	6.43	25	

DUP Sample ID: **0401236-09CDUP** Test Code: **SW1311/6020** Units: **mg/L** Analysis Date: **02/02/04 17:40**
Client ID: Run ID: **ICP7500_040202A** SeqNo: **424088** Prep Date: **2/2/2004** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.050	0	0	0	0-0	0.02126	0	25	
Barium	2.067	0.050	0	0	0	0-0	0.8904	79.6	25	R
Cadmium	ND	0.050	0	0	0	0-0	0.0002937	0	25	
Chromium	0.0281	0.050	0	0	0	0-0	0.03076	0	25	J
Lead	ND	0.050	0	0	0	0-0	0.0009032	0	25	
Selenium	0.02745	0.050	0	0	0	0-0	0.04699	0	25	J
Silver	ND	0.050	0	0	0	0-0	-0.00004061	0	25	

The following samples were analyzed in this batch: 0401258-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: **7896** InstrumentID: **Mercury**

MBLK Sample ID: **GBLKW1-020204** Test Code: **SW7470** Units: **mg/L** Analysis Date: **02/03/04 16:22**
Client ID: Run ID: **MERCURY_040203A** SeqNo: **424291** Prep Date: **2/2/2004** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.0020								

MBLK Sample ID: **GBLKT1-013004** Test Code: **SW7470** Units: **mg/L** Analysis Date: **02/03/04 17:26**
Client ID: Run ID: **MERCURY_040203A** SeqNo: **424339** Prep Date: **2/2/2004** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.0020								

LCS Sample ID: **GLCSW1-020204** Test Code: **SW7470** Units: **mg/L** Analysis Date: **02/03/04 16:24**
Client ID: Run ID: **MERCURY_040203A** SeqNo: **424292** Prep Date: **2/2/2004** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00472	0.0020	0.005	0	94.4	80-120	0			

LCSD Sample ID: **GLCSDW1-020204** Test Code: **SW7470** Units: **mg/L** Analysis Date: **02/03/04 16:25**
Client ID: Run ID: **MERCURY_040203A** SeqNo: **424293** Prep Date: **2/2/2004** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00468	0.0020	0.005	0	93.6	80-120	0.00472	0.851	25	

MS Sample ID: **0401213-01AMS** Test Code: **SW7470** Units: **mg/L** Analysis Date: **02/03/04 16:32**
Client ID: Run ID: **MERCURY_040203A** SeqNo: **424296** Prep Date: **2/2/2004** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00457	0.0020	0.005	-0.000095	93.3	75-125	0			

MSD Sample ID: **0401213-01AMSD** Test Code: **SW7470** Units: **mg/L** Analysis Date: **02/03/04 16:38**
Client ID: Run ID: **MERCURY_040203A** SeqNo: **424297** Prep Date: **2/2/2004** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0052	0.0020	0.005	-0.000095	106	75-125	0.00457	12.9	20	

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R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: **7896** InstrumentID: **Mercury**

DUP Sample ID: **0401213-01ADUP** Test Code: **SW7470** Units: **mg/L** Analysis Date: **02/03/04 16:31**
Client ID: Run ID: **MERCURY_040203A** SeqNo: **424295** Prep Date: **2/2/2004** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.0020	0	0	0	0-0	-0.000095	0	20	

The following samples were analyzed in this batch: 0401258-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: 7903 InstrumentID: SV-3

MBLK Sample ID: SBLKT1-040202 Test Code: SW1311/8270 Units: µg/L Analysis Date: 02/03/04 14:49
Client ID: Run ID: SV-3_040202A SeqNo: 424284 Prep Date: 2/2/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
Cresols, Total	ND	30								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachloroethane	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Pyridine	ND	10								
Surr: 2,4,6-Tribromophenol	106.2	10	100	0	106	45-146	0			
Surr: 2-Fluorobiphenyl	97.02	10	100	0	97	55-120	0			
Surr: 2-Fluorophenol	53.26	10	100	0	53.3	21-110	0			
Surr: 4-Terphenyl-d14	105.4	10	100	0	105	42-153	0			
Surr: Nitrobenzene-d5	94.04	10	100	0	94	51-117	0			
Surr: Phenol-d6	35.15	10	100	0	35.1	10-110	0			

LCS Sample ID: SLCST1-040202 Test Code: SW1311/8270 Units: µg/L Analysis Date: 02/03/04 15:15
Client ID: Run ID: SV-3_040202A SeqNo: 424285 Prep Date: 2/2/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	49.56	10	50	0	99.2	48-119	0			
2,4,6-Trichlorophenol	50.62	10	50	0	101	52-119	0			
2,4-Dinitrotoluene	47.11	10	50	0	94.2	46-114	0			
Cresols, Total	121.9	30	150	0	81.3	35-100	0			
Hexachlorobenzene	53.3	10	50	0	107	25-84	0			S
Hexachlorobutadiene	54.86	10	50	0	110	47-120	0			
Hexachloroethane	46.25	10	50	0	92.5	47-113	0			
Nitrobenzene	47.39	10	50	0	94.8	55-111	0			
Pentachlorophenol	54.58	10	50	0	109	36-120	0			
Pyridine	27.1	10	50	0	54.2	17-80	0			
Surr: 2,4,6-Tribromophenol	107.9	10	100	0	108	45-146	0			
Surr: 2-Fluorobiphenyl	92.77	10	100	0	92.8	55-120	0			
Surr: 2-Fluorophenol	60.31	10	100	0	60.3	21-110	0			
Surr: 4-Terphenyl-d14	101.2	10	100	0	101	42-153	0			
Surr: Nitrobenzene-d5	89.42	10	100	0	89.4	51-117	0			
Surr: Phenol-d6	39.65	10	100	0	39.7	10-110	0			

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J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: 7903 InstrumentID: SV-3

LCSD Sample ID: SLCSDT1-040202 Test Code: SW1311/8270 Units: µg/L Analysis Date: 02/03/04 15:41
Client ID: Run ID: SV-3_040202A SeqNo: 424286 Prep Date: 2/2/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	48.56	10	50	0	97.1	48-119	48.58	2.08	25	
2,4,6-Trichlorophenol	51.06	10	50	0	102	52-119	50.62	0.866	25	
2,4-Dinitrotoluene	45.84	10	50	0	91.7	46-114	47.11	2.74	25	
Cresols, Total	119.7	30	150	0	79.8	35-100	121.9	1.8	25	
Hexachlorobenzene	52.43	10	50	0	105	25-84	53.3	1.66	25	S
Hexachlorobutadiene	55.16	10	50	0	110	47-120	54.86	0.558	25	
Hexachloroethane	46.57	10	50	0	93.1	47-113	46.25	0.682	25	
Nitrobenzene	48.2	10	50	0	96.4	55-111	47.39	1.7	25	
Pentachlorophenol	51.16	10	50	0	102	36-120	54.58	6.47	42	
Pyridine	23.93	10	50	0	47.9	17-80	27.1	12.4	25	
Surr: 2,4,6-Tribromophenol	104.2	10	100	0	104	45-146	107.9	3.56	25	
Surr: 2-Fluorobiphenyl	91.05	10	100	0	91	55-120	92.77	1.87	25	
Surr: 2-Fluorophenol	56.09	10	100	0	56.1	21-110	60.31	7.25	25	
Surr: 4-Terphenyl-d14	101.8	10	100	0	102	42-153	101.2	0.591	25	
Surr: Nitrobenzene-d5	87.55	10	100	0	87.5	51-117	89.42	2.11	25	
Surr: Phenol-d6	36.65	10	100	0	36.7	10-110	39.65	7.86	25	

The following samples were analyzed in this batch: 0401258-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Reference analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: **R18544** InstrumentID: **VOA_I**

MBLK Sample ID: **VBLKT1-0128** Test Code: **SW1311/8260** Units: µg/L Analysis Date: **02/02/04 15:17**
Client ID: Run ID: **VOA_I_040202B** SeqNo: **424132** Prep Date: **1/28/2004** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	839.6	0	1000	0	84	70-130	0			
Surr: 4-Bromofluorobenzene	988.5	0	1000	0	98.8	70-130	0			
Surr: Dibromofluoromethane	914	0	1000	0	91.4	70-130	0			
Surr: Toluene-d8	933.9	0	1000	0	93.4	70-130	0			

MBLK Sample ID: **VBLKT2-0202** Test Code: **SW1311/8260** Units: µg/L Analysis Date: **02/02/04 15:44**
Client ID: Run ID: **VOA_I_040202B** SeqNo: **424133** Prep Date: **1/30/2004** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	100								
1,2-Dichloroethane	ND	100								
1,4-Dichlorobenzene	ND	100								
2-Butanone	ND	200								
Benzene	ND	100								
Carbon tetrachloride	ND	100								
Chlorobenzene	ND	100								
Chloroform	ND	100								
Tetrachloroethene	ND	100								
Trichloroethene	ND	100								
Vinyl chloride	ND	100								
Surr: 1,2-Dichloroethane-d4	841.6	0	1000	0	84.2	70-130	0			
Surr: 4-Bromofluorobenzene	995.4	0	1000	0	99.5	70-130	0			
Surr: Dibromofluoromethane	893.7	0	1000	0	89.4	70-130	0			
Surr: Toluene-d8	933.9	0	1000	0	93.4	70-130	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: R18544 InstrumentID: VOA_I

MBLK Sample ID: **VBLKW-0202** Test Code: **SW1311/8260** Units: µg/L Analysis Date: **02/02/04 16:11**
Client ID: Run ID: **VOA_I_040202B** SeqNo: **424134** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2-Butanone	ND	10								
Benzene	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Tetrachloroethene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl chloride	ND	5.0								
Surr: 1,2-Dichloroethane-d4	41.62	0	50	0	83.2	70-130	0			
Surr: 4-Bromofluorobenzene	49.08	0	50	0	98.2	70-130	0			
Surr: Dibromofluoromethane	44.93	0	50	0	89.9	70-130	0			
Surr: Toluene-d8	46.82	0	50	0	93.6	70-130	0			

LCS Sample ID: **VLCSW-0202** Test Code: **SW1311/8260** Units: µg/L Analysis Date: **02/02/04 13:30**
Client ID: Run ID: **VOA_I_040202B** SeqNo: **424131** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	48.48	5.0	50	0	97	50.8-126	0			
1,2-Dichloroethane	47.04	5.0	50	0	94.1	70-130	0			
1,4-Dichlorobenzene	46.02	5.0	50	0	92	70-130	0			
2-Butanone	104.3	10	100	0	104	70-130	0			
Benzene	48.09	5.0	50	0	96.2	70.1-128	0			
Carbon tetrachloride	48.48	5.0	50	0	97	70-130	0			
Chlorobenzene	46.74	5.0	50	0	93.5	72.5-127	0			
Chloroform	47.52	5.0	50	0	95	70-130	0			
Tetrachloroethene	50.98	5.0	50	0	102	70-130	0			
Trichloroethene	48.02	5.0	50	0	96	72.5-129	0			
Vinyl chloride	48.39	5.0	50	0	96.8	70-130	0			
Surr: 1,2-Dichloroethane-d4	41.99	0	50	0	84	65.3-120	0			
Surr: 4-Bromofluorobenzene	50.18	0	50	0	100	74.9-115	0			
Surr: Dibromofluoromethane	45.11	0	50	0	90.2	70.5-119	0			
Surr: Toluene-d8	46.36	0	50	0	92.7	72.6-119	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: **R18544** InstrumentID: **VOA_I**

MS Sample ID: **0401258-01AMS** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **02/02/04 18:02**
Client ID: **S.P. Sewer Line** Run ID: **VOA_I_040202B** SeqNo: **424135** Prep Date: **1/28/2004** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	990.9	100	1000	0	99.1	70-130	0			
1,2-Dichloroethane	920.9	100	1000	0	92.1	70-130	0			
1,4-Dichlorobenzene	927.4	100	1000	0	92.7	70-130	0			
2-Butanone	1956	200	2000	0	97.8	70-130	0			
Benzene	990.7	100	1000	54.01	93.7	70-130	0			
Carbon tetrachloride	930.1	100	1000	0	93	70-130	0			
Chlorobenzene	940.9	100	1000	0	94.1	70-130	0			
Chloroform	950.5	100	1000	0	95.1	70-130	0			
Tetrachloroethene	982.1	100	1000	27.78	95.4	70-130	0			
Trichloroethene	942.1	100	1000	0	94.2	70-130	0			
Vinyl chloride	979.3	100	1000	0	97.9	70-130	0			
Surr: 1,2-Dichloroethane-d4	833.1	0	1000	0	83.3	70-130	0			
Surr: 4-Bromofluorobenzene	994.4	0	1000	0	99.4	70-130	0			
Surr: Dibromofluoromethane	894.1	0	1000	0	89.4	70-130	0			
Surr: Toluene-d8	925.4	0	1000	0	92.5	70-130	0			

MSD Sample ID: **0401258-01AMSD** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **02/02/04 18:29**
Client ID: **S.P. Sewer Line** Run ID: **VOA_I_040202B** SeqNo: **424136** Prep Date: **1/28/2004** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	975.7	100	1000	0	97.6	70-130	990.9	1.55	20	
1,2-Dichloroethane	942.8	100	1000	0	94.3	70-130	920.9	2.34	0	
1,4-Dichlorobenzene	905	100	1000	0	90.5	70-130	927.4	2.44	0	
2-Butanone	1954	200	2000	0	97.7	70-130	1956	0.12	0	
Benzene	1026	100	1000	54.01	97.2	70-130	990.7	3.47	20	
Carbon tetrachloride	935.3	100	1000	0	93.5	70-130	930.1	0.564	0	
Chlorobenzene	939.8	100	1000	0	94	70-130	940.9	0.117	20	
Chloroform	969.1	100	1000	0	96.9	70-130	950.5	1.94	0	
Tetrachloroethene	974	100	1000	27.78	94.6	70-130	982.1	0.826	0	
Trichloroethene	959.8	100	1000	0	96	70-130	942.1	1.86	20	
Vinyl chloride	979.7	100	1000	0	98	70-130	979.3	0.0457	0	
Surr: 1,2-Dichloroethane-d4	841.9	0	1000	0	84.2	70-130	833.1	1.06	20	
Surr: 4-Bromofluorobenzene	1001	0	1000	0	100	70-130	994.4	0.65	20	
Surr: Dibromofluoromethane	902	0	1000	0	90.2	70-130	894.1	0.873	20	
Surr: Toluene-d8	920	0	1000	0	92	70-130	925.4	0.582	20	

The following samples were analyzed in this batch: 0401258-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Reported analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: **R18602** InstrumentID: **Wet Chemistry**

LCS Sample ID: **WLCSW1-013004** Test Code: **SW9045B** Units: **pH Units** Analysis Date: **01/30/04 0:00**
Client ID: Run ID: **WET CHEMISTRY_0401** SeqNo: **422981** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.01	0.10	6	0	100	85-115	0			

DUP Sample ID: **0401229-09ADUP** Test Code: **SW9045B** Units: **pH Units** Analysis Date: **01/30/04 0:00**
Client ID: Run ID: **WET CHEMISTRY_0401** SeqNo: **422966** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.2	0.10	0	0	0	75-125	7.19	0.139	20	

The following samples were analyzed in this batch: 0401258-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401258
Project: S.P. Sewer Line-Artesia

QC BATCH REPORT

Batch ID: R18516 InstrumentID: Wet Chemistry

DUP Sample ID: 0401258-01A DUP Test Code: SW846, Chpt. Units: Analysis Date: 01/30/04 0:00

Client ID: S.P. Sewer Line Run ID: WET CHEMISTRY_0401 SeqNo: 423357 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Burns vigorously and persistently	ND	0	0	0	0	0-0	0	0	0	
Ignites spontaneously	ND	0	0	0	0	0-0	0	0	0	
Ignites through friction	ND	0	0	0	0	0-0	0	0	0	
Ignites under std. temp and pressur	ND	0	0	0	0	0-0	0	0	0	
Ignites with moisture	ND	0	0	0	0	0-0	0	0	0	

The following samples were analyzed in this batch: 0401258-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

W.O.# 4401256 Page ____ of ____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #:

Company Name: NAVAJO
Phone #:
Address: (Street, City, Zip) 501 E. Main
Fax #:
Contact Person: Charlie Phynale
Invoice to: (If different from above)
Project #:
Project Name: S.P. Sewer Line
Project Location: Artesia
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
	S.P. Sewer Line	2	40ml		X							X	X	1/28/04	1300

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	HOLD, TSS, pH							Turn Around Time if different from standard	Hold
					X	X	X		X													

Combine Samples

Relinquished by: Date: 1/28/04 Time: 1615
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: 1/29/04 Time: 0925

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp.
Log-in Review

REMARKS: Combine Samples (Please Rush).

☐ Check If Special Reporting Limits Are Needed

Carrier #

e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING Date/Time Received: 1/30/2004 9:25:00 AM

Work Order Number 0401268 Received by: RNG

Checklist completed by [signature] 1/30/04 Reviewed by [initials] 2/2/04
Signature Date Initials Date

Matrix: S Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping 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 received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2c	003	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

W.O.# 040125g.

NAVAJO REFINING COMPANY

501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 29JAN2004
ACCOUNT # 113684186
ACTUAL WGT: 7.00 LBS

Part # 155140-434 NAIT 7.00

TO:

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
-
HOUSTON TX 77099

2815305656
BILL RECIPIENT

Delivery Address Barcode

FedEx PRIORITY OVERNIGHT

FRI
DELIVER BY:
30JAN2004
A2

System # 2223500 29JAN2004
TRK# 7905 3440 9383 Form 0201

IAH

77099-TX-US A9 JGQA

0515 v8.2.00 2223508 2844 04/03

e-Lab, Inc

Date: *February 04, 2004*

CLIENT: e-Lab, Inc
Project: 0401258
Work Order: 0402022

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0402022-01	0401258-01B	Soil		1/28/2004 13:00	2/3/2004 12:30	☐

e-Lab, Inc

Date: *February 04, 2004*

CLIENT: e-Lab, Inc
Project: 0401258

Work Order: 0402022

Lab ID: 0402022-01A
Client Sample ID: 0401258-01B

Collection Date: 1/28/2004 1:00:00 PM
Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE		EPA 7.3.3.2				Analyst: KAE
Cyanide, Reactive	ND	0.0300		mg/Kg	1	2/4/2004
SULFIDE, REACTIVE		EPA 7.3.4.2				Analyst: KAE
Sulfide, Reactive	ND	40.0		mg/Kg	1	2/4/2004

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
P - Dual Columns results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc

CLIENT: e-Lab, Inc
Work Order: 0402022
Project: 0401258

Date: *Feb 04 2004*

QC BATCH REPORT

Batch ID: R19882 **InstrumentID:** WETCHEM

MBLK	Sample ID: WBLKR1-020403			Test Code: EPA 7.3.3.2		Units: mg/Kg		Analysis Date 02/04/04 0:00	
Client ID:		Run ID: WETCHEM_040204E		SeqNo: 277249		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	0.030								

LCS	Sample ID: WLCSR1-020403			Test Code: EPA 7.3.3.2		Units: mg/Kg		Analysis Date 02/04/04 0:00	
Client ID:		Run ID: WETCHEM_040204E		SeqNo: 277250		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	1.896	1.5	16.95	0	11.2	S-100	0			

The following samples were analyzed in this batch: 0402022-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: e-Lab, Inc
Work Order: 0402022
Project: 0401258

QC BATCH REPORT

Batch ID: R19084 InstrumentID: WETCHEM

MBLK Sample ID: WBLKW1-020404 Test Code: EPA 7.3.4.2 Units: mg/Kg Analysis Date 02/04/04 0:00
Client ID: Run ID: WETCHEM_040204F SeqNo: 277257 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch: 0402022-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Reference analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL

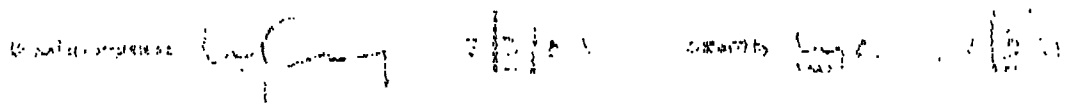
CHAIN-OF-CUSTODY RECORD

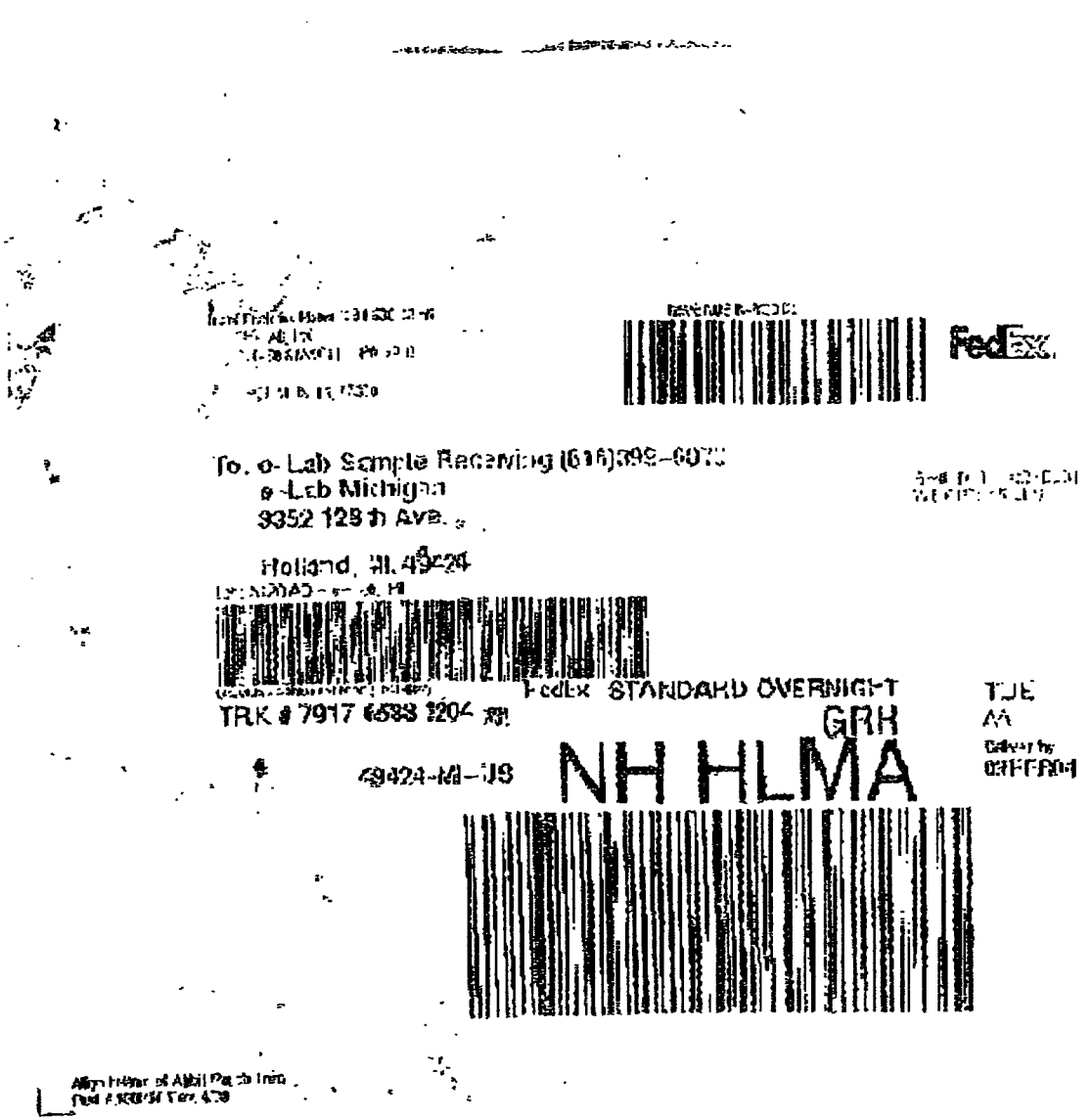
Sample ID	Matrix	Collection Date	[illegible]	Requested Tests
[illegible]	[illegible]	[illegible]	[illegible]	

Comments: [illegible]

Relinquished by: [illegible] Date Time [illegible] Received by: [illegible] Date Time [illegible]

Relinquished by: Received by:




FedEx
To e-Lab Sample Receiving (616)399-6070
e-Lab Michigan
3352 128th Ave.
Holland, MI 49424
FedEx STANDARD OVERNIGHT
TRK # 7917 6583 2204
GRH
49424-M-US
NH HLMA
TUE
AA

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
FEB 0 2 2004
Environmental Bureau
Oil Conservation Division

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Navajo Refining
	5. Originating Site Artesia Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 E Main, Artesia, NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-27-04

Blast sand (CCR Heater).

Generated during the sandblasting of the inside of a heater.

Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Custody

This approval is one time.

JAN 2004
RECEIVED
Hobbs
OCD

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

SIGNATURE Kim Flowers TITLE: Rep DATE: 01-27-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

1-hoz020

(This space for State Use)

APPROVED BY: _____ TITLE: ENVIRO-ENGR DATE: 1.28.04

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 2-2-04

NAVAJO REFINING COMPANY, L.P.

FAX
(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX
(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

January 16, 2004

Ken Marsh
CRI
P.O. Box 388
Hobbs, NM 88214

Ken,

I would like to profile 2 roll off bins of blast sand from sandblasting the inside of our CCR heater tower. This material is NON HAZARDOUS and would be transported in 20 yard roll off bins by D & J waste haulers.

Sincerely,

Charlie Plymale
Sr. Environmental Specialist

Post-it® Fax Note 7671	Date 1/19/04	# of pages ▶ 9
To Ken Marsh	From Charlie Plymale	
Co./Dept. CRI	Co. Navajo Refining Co	
Phone #	Phone #	
Fax # 505-393-3615	Fax #	

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Blast Sand (CCR Heater)

ESTIMATED VOLUME: 30 yards

GENERATING PROCESS: Generated during the sandblasting of the inside of a heater.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: D and J Waste Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: _____
SIGNATURE

NAME: CHARLIE PLYMALE
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 1/16/04

e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

January 16, 2004

Charlie Plymale
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5241
Fax: (505) 746-5421

Re: TCLP CCR H. Bl. Sand Work Order : **0401038**

Dear Charlie Plymale,

e-Lab, Inc. received 1 sample on 1/7/2004 9:25:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Paulina A. Delvalle

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: *January 16, 2004*

CLIENT: Navajo Refining Company
Project: TCLP CCR H. Bl. Sand
Work Order: 0401038

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0401038-01	CCR H. Blast Sand	Soil		1/6/2004 10:00	1/7/2004 09:25	☐

e-Lab, Inc.

Date: *January 16, 2004*

CLIENT: Navajo Refining Company
Work Order: 0401038
Project: TCLP CCR H. Bl. Sand
Lab ID: 0401038-01

Client Sample ID: CCR H. Blast Sand
Collection Date: 1/6/2004 10:00:00 AM
Matrix: SOIL

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP VOLATILES				SW1311/8260B	Prep Date: 1/8/2004	Analyst: PC
Benzene	ND	100		µg/L	20	1/12/2004 8:29:00 PM
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%REC	20	1/12/2004 8:29:00 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	20	1/12/2004 8:29:00 PM
Surr: Dibromofluoromethane	89.5	70-130		%REC	20	1/12/2004 8:29:00 PM
Surr: Toluene-d8	104	70-130		%REC	20	1/12/2004 8:29:00 PM

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

CLIENT: Navajo Refining Company
Work Order: 0401038
Project: TCLP CCR H. Bl. Sand

Date: *Jan 16 2004*

QC BATCH REPORT

Batch ID: **R18214** InstrumentID: **VOA3**

MBLK Sample ID: **VBLKW-0112** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **01/12/04 13:04**
Client ID: Run ID: **VOA3_040112B** SeqNo: **416337** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Surr: 1,2-Dichloroethane-d4	45.89	0	50	0	91.8	70-130	0			
Surr: 4-Bromofluorobenzene	52.04	0	50	0	104	70-130	0			
Surr: Dibromofluoromethane	47.12	0	50	0	94.2	70-130	0			
Surr: Toluene-d8	51.64	0	50	0	103	70-130	0			

MBLK Sample ID: **VBLKT1-0107** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **01/12/04 18:30**
Client ID: Run ID: **VOA3_040112B** SeqNo: **416341** Prep Date: **1/7/2004** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	100								
Surr: 1,2-Dichloroethane-d4	852.2	0	1000	0	85.2	70-130	0			
Surr: 4-Bromofluorobenzene	1055	0	1000	0	105	70-130	0			
Surr: Dibromofluoromethane	856.3	0	1000	0	85.6	70-130	0			
Surr: Toluene-d8	1054	0	1000	0	105	70-130	0			

MBLK Sample ID: **VBLKT2-0109** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **01/12/04 18:59**
Client ID: Run ID: **VOA3_040112B** SeqNo: **416342** Prep Date: **1/8/2004** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	100								
Surr: 1,2-Dichloroethane-d4	874.8	0	1000	0	87.5	70-130	0			
Surr: 4-Bromofluorobenzene	1046	0	1000	0	105	70-130	0			
Surr: Dibromofluoromethane	869.7	0	1000	0	87	70-130	0			
Surr: Toluene-d8	1045	0	1000	0	104	70-130	0			

LCS Sample ID: **VLCSW-0112** Test Code: **SW1311/8260** Units: **µg/L** Analysis Date: **01/12/04 12:05**
Client ID: Run ID: **VOA3_040112B** SeqNo: **416336** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.37	5.0	50	0	103	70.1-126	0			
Surr: 1,2-Dichloroethane-d4	45.01	0	50	0	90	65.3-120	0			
Surr: 4-Bromofluorobenzene	53.95	0	50	0	108	74.9-115	0			
Surr: Dibromofluoromethane	46.68	0	50	0	93.4	70.5-119	0			
Surr: Toluene-d8	52.55	0	50	0	105	72.6-119	0			

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401038
Project: TCLP CCR H. Bl. Sand

QC BATCH REPORT

Batch ID: R18214 InstrumentID: VOA3

MS Sample ID: 0401028-04ZMS Test Code: SW1311/8260 Units: µg/L Analysis Date: 01/12/04 14:03
Client ID: Run ID: VOA3_040112B SeqNo: 416339 Prep Date: DF: 250

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	12080	1,200	12500	0	96.6	70-130	0			
Surr: 1,2-Dichloroethane-d4	11600	0	12500	0	92.8	70-130	0			
Surr: 4-Bromofluorobenzene	13370	0	12500	0	107	70-130	0			
Surr: Dibromofluoromethane	11900	0	12500	0	95.2	70-130	0			
Surr: Toluene-d8	12970	0	12500	0	104	70-130	0			

MSD Sample ID: 0401028-04ZMSD Test Code: SW1311/8260 Units: µg/L Analysis Date: 01/12/04 14:33
Client ID: Run ID: VOA3_040112B SeqNo: 416340 Prep Date: DF: 250

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	12020	1,200	12500	0	96.2	70-130	12080	0.477	20	
Surr: 1,2-Dichloroethane-d4	11390	0	12500	0	91.1	70-130	11600	1.89	20	
Surr: 4-Bromofluorobenzene	13460	0	12500	0	108	70-130	13370	0.636	20	
Surr: Dibromofluoromethane	11640	0	12500	0	93.1	70-130	11900	2.25	20	
Surr: Toluene-d8	13270	0	12500	0	106	70-130	12970	2.31	20	

The following samples were analyzed in this batch: 0401038-01A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

e-Lab QUALITY • INTEGRITY • SERVICE

☐ e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

☐ e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

e-Lab Project Manager:
e-Lab Work Order #: [illegible]

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	TCLP CCR H. Bl. Sand	A	~~Volatiles, Benzene (8260)~~
Work Order		Project Number		B	TCLP Benzene
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C	
Send Report To	Charlie Plymale	Invoice Attn	Charlie Plymale	D	
Address	P.O. Box 159	Address	P.O. Box 159	E	
				F	
City/State/Zip	Artesia, New Mexico 88211	City/State/Zip	Artesia, New Mexico 88211	G	
Phone	(505) 748-3311	Phone	(505) 748-3311	H	
Fax	(505) 746-5421	Fax	(505) 746-5421	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CCR H. Blast Sand	1/6/04	1000	-		1		X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Charlie Plymale [signature]

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: [signature]	Date: 1/6/04	Time: 1615	Received by:
Relinquished by: [signature]	Date:	Time:	Received by (Laboratory): RICHARD SANCHEZ 1-7-04 0935
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

e-Lab Cooler #: | Cooler Temp: | QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☒ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.
2. [illegible]

e-Lab, Inc.

Sample Receipt Checklist

Client Name. NAVAJO REFINING Date/Time Received: 1/7/2004 9:25:00 AM

Work Order Number 0401038 Received by: RSZ

Checklist completed by [signature] 1/7/04 (Signature / Date) Reviewed by LT 1/8/04 (Initials / Date)

Matrix: S Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping 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 received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.9c	003	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

c-Lab, Inc. **Date:** *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-03

Client Sample ID: CCR Heater Blast Sand
Collection Date: 12/16/2003 10:00:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP MERCURY		SW7470			Prep Date: 12/22/2003	Analyst: MG
Mercury	ND	0.00200		mg/L	1	12/23/2003 4:43:47 PM
TCLP METALS, ICP		SW1311/6020			Prep Date: 12/19/2003	Analyst: SA
Arsenic	0.0958	0.0500		mg/L	10	12/24/2003 12:42:00 PM
Barium	0.166	0.0500		mg/L	10	12/24/2003 12:42:00 PM
Cadmium	ND	0.0500		mg/L	10	12/24/2003 12:42:00 PM
Chromium	0.712	0.0500		mg/L	10	12/24/2003 12:42:00 PM
Lead	ND	0.0500		mg/L	10	12/24/2003 12:42:00 PM
Selenium	ND	0.0500		mg/L	10	12/24/2003 12:42:00 PM
Silver	ND	0.0500		mg/L	10	12/24/2003 12:42:00 PM
TCLP SEMIVOLATILES		SW1311/8270			Prep Date: 12/19/2003	Analyst: HV
2,4,5-Trichlorophenol	ND	10		µg/L	1	12/22/2003 6:03:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	12/22/2003 6:03:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	12/22/2003 6:03:00 PM
Cresols, Total	ND	30		µg/L	1	12/22/2003 6:03:00 PM
Hexachlorobenzene	ND	10		µg/L	1	12/22/2003 6:03:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	12/22/2003 6:03:00 PM
Hexachloroethane	ND	10		µg/l	1	12/22/2003 6:03:00 PM
Nitrobenzene	ND	10		µg/L	1	12/22/2003 6:03:00 PM
Pentachlorophenol	ND	10		µg/L	1	12/22/2003 6:03:00 PM
Pyridine	ND	10		µg/L	1	12/22/2003 6:03:00 PM
Surr: 2,4,6-Tribromophenol	48.2	45-146		%REC	1	12/22/2003 6:03:00 PM
Surr: 2-Fluorobiphenyl	58.4	55-120		%REC	1	12/22/2003 6:03:00 PM
Surr: 2-Fluorophenol	43.2	21-110		%REC	1	12/22/2003 6:03:00 PM
Surr: 4-Terphenyl-d14	66.5	42-153		%REC	1	12/22/2003 6:03:00 PM
Surr: Nitrobenzene-d5	60.7	51-117		%REC	1	12/22/2003 6:03:00 PM
Surr: Phenol-d6	25.8	10-110		%REC	1	12/22/2003 6:03:00 PM
TCLP VOLATILES		SW1311/8260B			Prep Date: 12/17/2003	Analyst: HLBW
1,1-Dichloroethene	ND	100		µg/L	20	12/26/2003 3:59:00 PM
1,2-Dichloroethane	ND	100		µg/L	20	12/26/2003 3:59:00 PM
1,4-Dichlorobenzene	ND	100		µg/L	20	12/26/2003 3:59:00 PM
2-Butanone	ND	200		µg/L	20	12/26/2003 3:59:00 PM
Benzene				µg/L	20	12/26/2003 3:59:00 PM
Carbon tetrachloride	ND	100		µg/L	20	12/26/2003 3:59:00 PM
Chlorobenzene	ND	100		µg/L	20	12/26/2003 3:59:00 PM
Chloroform	ND	100		µg/L	20	12/26/2003 3:59:00 PM
Tetrachloroethene	ND	100		µg/L	20	12/26/2003 3:59:00 PM
Trichloroethene	ND	100		µg/L	20	12/26/2003 3:59:00 PM
Vinyl chloride	ND	100		µg/L	20	12/26/2003 3:59:00 PM

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc. **Date:** *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-03

Client Sample ID: CCR Heater Blast Sand
Collection Date: 12/16/2003 10:00:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%REC	20	12/26/2003 3:59:00 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%REC	20	12/26/2003 3:59:00 PM
Surr: Dibromofluoromethane	94.9	70-130		%REC	20	12/26/2003 3:59:00 PM
Surr: Toluene-d8	93.8	70-130		%REC	20	12/26/2003 3:59:00 PM
CYANIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Cyanide	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Sulfide	ND	40.0		mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		**SW846, CHPT. 7.1.2**				Analyst: **MG**
Burns vigorously and persistently	No				1	12/18/2003
Ignites spontaneously	No				1	12/18/2003
Ignites through friction	No				1	12/18/2003
Ignites under std. temp and pressure	No				1	12/18/2003
Ignites with moisture	No				1	12/18/2003
PH IN SOLID		**SW9045B**				Analyst: **MG**
pH	8.10	0.100		pH Units	1	12/18/2003

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

W.O# 0312495

Page ____ of ____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #:

Company Name: NAVAJO

Phone #:

Address: (Street, City, Zip)

Fax #:

Contact Person: Charlie Phymale

Invoice to: (If different from above)

Project #:

Project Name: Misc TCLP

Project Location:

Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Other	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
	SRU Act Alumina	1	100		X			X					X	X	12/4/03	1040
	Assy Act Alumina	1	100					X					X	X	12/4/03	1030
	CCR Heater Blastsand	1	100		X			X					X	X	12/10/03	1000

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
					X	X	X		X							
					X	X	X		X							
					X	X	X		X							

Relinquished by: Date: 12/10/03 Time: 1615

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: ENRIQUE SANCHEZ Date: 12-10 Time: 1615

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY

Intact: Y N

Headspace: Y N

Temp.

Log-in Review

Carrier #

REMARKS:

☐ Check If Special Reporting Limits Are Needed

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Tomsco, LLC 5. Originating Site Hobbs, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2621 ½ W. Marland, Hobbs,NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-08-04

Blast sand & residue.

Sandblasting, Blast sand and residue from pumping units prior to painting.

Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Custody

This approval is good thru 01-08-05. ok

Estimated Volume 50 yards/annually. Known Volume (to be entered by the operator at the end of the haul) _____cy

JAN 2004
RECEIVED
Hobbs
OCD

SIGNATURE Kim Flowers TITLE: Rep DATE: 01-08-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

011204-3

(This space for State Use)

APPROVED BY: _____ TITLE: Envir Engr DATE: 1.8.04

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 1-12-04

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR TOMSCO, LLC

ADDRESS P. O. Box 660 Artesia, NM 88211-0660

GENERATING SITE 2621 1/2 W. Marland Hobbs, NM 88240

COUNTY Lea STATE NM

TYPE OF WASTE Blast sand & residue from pumping units prior to paintin

ESTIMATED VOLUME 50 yds. annually

GENERATING PROCESS Sandblasting

REMARKS

NMOCD FACILITY CRI

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT TK Hogg
SIGNATURE

NAME Thomas K. Scroggin Managing Member TOMSCO, LLC
PRINTED

ADDRESS P.O. Box 660

Artesia, NM 88211-0660

DATE January 7, 2004

ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes	
B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

CRI
attn: DAVID PARSONS
BOX 388
HOBBS NM 88241

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Sample: *1* Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-01A		**SW846 1010**					By:	RAC		
SFL0365	WC.2003.3137.2		Flashpoint	> 60.0	Deg C	1	20		12-24-03	12-24-03
0312387-01A		**SW846 3550A/8270C SVOCs by GC/MS**					By:	DS		
X03629	XG.2003.2305.3	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	90-12-0	1-Methylnaphthalene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	3	1.5		12-23-03	12-23-03
X03629	XG.2003.2305.3	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	3	0.67		12-23-03	12-23-03
X03629	XG.2003.2305.3	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	91-58-7	2-Chloronaphthalene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	95-57-8	2-Chlorophenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	91-57-6	2-Methylnaphthalene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	95-48-7	2-Methylphenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	88-74-4	2-Nitroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	88-75-5	2-Nitrophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3		3+4 Methylphenol	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	99-09-2	3-Nitroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03

SQLCoyote: Reports 1.0.0310221500XX *Report Date 12/29/2003 4:25:14 PM*

ACCREDITED

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

Sample: ***1*** Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-01A			**SW846 3550A/8270C SVOCs by GC/MS**					By: DS		
X03629	XG.2003.2305.3	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	106-47-8	4-Chloroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	100-01-6	4-Nitroaniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	100-02-7	4-Nitrophenol	ND	mg / Kg	3	0.6		12-23-03	12-23-03
X03629	XG.2003.2305.3	83-32-9	Acenaphthene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	208-96-8	Acenaphthylene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	62-53-3	Aniline	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	120-12-7	Anthracene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	56-55-3	Benzo (a) anthracene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	50-32-8	Benzo(a)pyrene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3		Benzo(b & k)fluoranthene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	64-85-0	Benzoic acid	ND	mg / Kg	3	3		12-23-03	12-23-03
X03629	XG.2003.2305.3	100-51-6	Benzyl alcohol	ND	mg / Kg	3	1.5		12-23-03	12-23-03
X03629	XG.2003.2305.3	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	117-81-7	bis(2-Ethylhexyl)phthalate	4.6	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	85-68-7	Butylbenzylphthalate	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	218-01-9	Chrysene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	132-64-9	Dibenzofuran	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	84-66-2	Diethylphthalate	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	131-11-3	Dimethylphthalate	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	84-74-2	di-n-Butylphthalate	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	117-84-0	di-n-Octylphthalate	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	206-44-0	Fluoranthene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	86737	Fluorene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	118-74-1	Hexachlorobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	87-68-3	Hexachlorobutadiene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	3	1.5		12-23-03	12-23-03
X03629	XG.2003.2305.3	67-72-1	Hexachloroethane	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	78-59-1	Isophorone	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	91-20-3	Naphthalene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	98-95-3	Nitrobenzene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	3	0.03		12-23-03	12-23-03

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

Sample: ***1*** Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-01A		**SW846 3550A/8270C SVOCs by GC/MS**						By: DS		
X03629	XG.2003.2305.3	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	87-86-5	Pentachlorophenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	85-01-8	Phenanthrene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	108-95-2	Phenol	ND	mg / Kg	3	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.3	129-00-0	Pyrene	ND	mg / Kg	3	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.3	110-86-1	Pyridine	ND	mg / Kg	3	0.3		12-23-03	12-23-03
0312387-01A		**SW846 8260B Purgeable VOCs by GC/MS**						By: VA/CWJ		
X03622	XG.2003.2288.11	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	67-64-1	Acetone	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	107-02-8	Acrolein	ND	mg / Kg	1	0.1	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-25-2	Bromoform	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	74-83-9	Bromomethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-00-3	Chloroethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	67-66-3	Chloroform	0.006	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	74-87-3	Chloromethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

Sample: ***1*** Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-01A		**SW846 8260B Purgeable VOCs by GC/MS**						By: \A/CWJ		
X03622	XG.2003.2288.11	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11		Freon 113	ND	mg / Kg	1	0.035	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-71-8	Freon 12	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	91-20-3	Naphthalene	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	100-42-5	Styrene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.11	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01	1	12-22-03	12-22-03
0312387-01A		**SW846 Sect. 7.3**						By: NJL		
W03507	WC.2003.3055.4	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		12-16-03	12-17-03
W03507	WC.2003.3082.3		Sulfide, Reactive	ND	mg / Kg	1	500		12-16-03	12-17-03
0312387-01A		**SW846-9045C**						By: NJL		
SPH0342	WC.2003.3061.4		pH	8.7	units	1	0.1	2	12-17-03	12-17-03
SPH0342	WC.2003.3061.4		solid pH measured in water @	21.3	deg C	1	0		12-17-03	12-17-03
0312387-01B		**SW846 1311/3010A/6010B ICP TCLP**						By: KDW		
M031719	MT.2003.1833.22	7440-38-2	Arsenic	ND	mg / L	1	0.2		12-24-03	12-29-03
M031719	MT.2003.1832.18	7440-39-3	Barium	1.0	mg / L	1	0.2		12-24-03	12-29-03
M031719	MT.2003.1833.22	7440-43-9	Cadmium	ND	mg / L	1	0.02		12-24-03	12-29-03
M031719	MT.2003.1833.22	7440-47-3	Chromium	0.28	mg / L	1	0.02		12-24-03	12-29-03
M031719	MT.2003.1833.22	7439-92-1	Lead	0.14	mg / L	1	0.1		12-24-03	12-29-03
M031719	MT.2003.1833.22	7782-49-2	Selenium	ND	mg / L	1	0.05		12-24-03	12-29-03
M031719	MT.2003.1832.18	7440-22-4	Silver	ND	mg / L	1	0.04		12-24-03	12-29-03
0312387-01B		**SW846 1311/7470A CVAA TCLP**						By: DAH		
M031720	MT.2003.1821.40	7439-97-6	Mercury	ND	mg / L	1	0.0002		12-24-03	12-24-03

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

Sample: ***2*** Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-02A		**SW846 1010**						By: RAC		
SFL0365	WC.2003.3137.3		Flashpoint	> 60.0	Deg C	1	20		12-24-03	12-24-03
0312387-02A		**SW846 3550A/8270C SVOCs by GC/MS**						By: DS		
X03629	XG.2003.2305.4	120-82-1	1,2,4-Trichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	95-50-1	1,2-Dichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	541-73-1	1,3-Dichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	106-46-7	1,4-Dichlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	90-12-0	1-Methylnaphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	58-90-2	2,3,4,6-Tetrachlorophenol	ND	mg / Kg	1	1.5		12-23-03	12-23-03
X03629	XG.2003.2305.4	95-95-4	2,4,5-Trichlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	88-06-2	2,4,6-Trichlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	120-83-2	2,4-Dichlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	105-67-9	2,4-Dimethylphenol	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	51-28-5	2,4-Dinitrophenol	ND	mg / Kg	1	0.67		12-23-03	12-23-03
X03629	XG.2003.2305.4	121-14-2	2,4-Dinitrotoluene	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	606-20-2	2,6-Dinitrotoluene	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	91-58-7	2-Chloronaphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	95-57-8	2-Chlorophenol	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	91-57-6	2-Methylnaphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	95-48-7	2-Methylphenol	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	88-74-4	2-Nitroaniline	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	88-75-5	2-Nitrophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	91-94-1	3,3-Dichlorobenzidine	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4		3+4 Methylphenol	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	99-09-2	3-Nitroaniline	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	534-52-1	4,6-Dinitro-2-methylphenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	101-55-3	4-Bromophenyl-phenylether	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	59-50-7	4-Chloro-3-methylphenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	106-47-8	4-Chloroaniline	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	7005-72-3	4-Chlorophenyl-phenylether	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	100-01-6	4-Nitroaniline	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	100-02-7	4-Nitrophenol	ND	mg / Kg	1	0.6		12-23-03	12-23-03
X03629	XG.2003.2305.4	83-32-9	Acenaphthene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	208-96-8	Acenaphthylene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	62-53-3	Aniline	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	120-12-7	Anthracene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4		Azobenzene&1,2-Diphenylhydrazine	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	56-55-3	Benzo (a) anthracene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	50-32-8	Benzo(a)pyrene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4		Benzo(b & k)fluoranthene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	191-24-2	Benzo(g,h,i)perylene	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	64-85-0	Benzoic acid	ND	mg / Kg	1	3		12-23-03	12-23-03
X03629	XG.2003.2305.4	100-51-6	Benzyl alcohol	ND	mg / Kg	1	1.5		12-23-03	12-23-03

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

Sample: ***2*** Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-02A		**SW846 3550A/8270C SVOCs by GC/MS**						By: DS		
X03629	XG.2003.2305.4	111-44-4	bis (2-Chloroethyl) ether	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	111-91-1	bis(2-Chloroethoxy)methane	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	108-60-1	bis(2-Chloroisopropyl)ether	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	117-81-7	bis(2-Ethylhexyl)phthalate	4.9	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	85-68-7	Butylbenzylphthalate	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	218-01-9	Chrysene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	53-70-3	Dibenz(a,h)anthracene	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	132-64-9	Dibenzofuran	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	84-66-2	Diethylphthalate	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	131-11-3	Dimethylphthalate	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	84-74-2	di-n-Butylphthalate	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	117-84-0	di-n-Octylphthalate	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	206-44-0	Fluoranthene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	86737	Fluorene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	118-74-1	Hexachlorobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	87-68-3	Hexachlorobutadiene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	77-47-4	Hexachlorocyclopentadiene	ND	mg / Kg	1	1.5		12-23-03	12-23-03
X03629	XG.2003.2305.4	67-72-1	Hexachloroethane	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	193-39-5	Indeno(1,2,3-cd)pyrene	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	78-59-1	Isophorone	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	91-20-3	Naphthalene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	98-95-3	Nitrobenzene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	62-75-9	n-Nitroso-dimethyl-amine	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	621-64-7	n-Nitroso-di-n-propylamine	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	86-30-6	n-Nitrosodiphenylamine	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	87-86-5	Pentachlorophenol	ND	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	85-01-8	Phenanthrene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	108-95-2	Phenol	0.60	mg / Kg	1	0.3		12-23-03	12-23-03
X03629	XG.2003.2305.4	129-00-0	Pyrene	ND	mg / Kg	1	0.03		12-23-03	12-23-03
X03629	XG.2003.2305.4	110-86-1	Pyridine	ND	mg / Kg	1	0.3		12-23-03	12-23-03
0312387-02A		**SW846 8260B Purgeable VOCs by GC/MS**						By: \A/CWJ		
X03622	XG.2003.2288.12	75-34-3	1,1 Dichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-35-4	1,1 Dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	71-55-6	1,1,1 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	630-20-6	1,1,1,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	79-00-5	1,1,2 Trichloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	79-34-5	1,1,2,2 Tetrachloroethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	106-93-4	1,2 Dibromoethane (EDB)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	95-50-1	1,2 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	78-87-5	1,2 Dichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	96-18-4	1,2,3 Trichloropropane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

Sample: **2** Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-02A		**SW846 8260B Purgeable VOCs by GC/MS**						By: \A/CWJ		
X03622	XG.2003.2288.12	95-63-6	1,2,4-Trimethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	541-73-1	1,3 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	108-67-8	1,3,5-Trimethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	764-41-0	1,4 Dichloro-2-butene	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	106-46-7	1,4 Dichlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	78-93-3	2-Butanone (MEK)	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	591-78-6	2-Hexanone (MBK)	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	108-10-1	4-Methyl-2-pentanone (MIBK)	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	67-64-1	Acetone	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	107-02-8	Acrolein	ND	mg / Kg	1	0.1	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	107-13-1	Acrylonitrile	ND	mg / Kg	1	0.1	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-27-4	Bromodichloromethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-25-2	Bromoform	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	74-83-9	Bromomethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-15-0	Carbon disulfide	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	56-23-5	Carbon tetrachloride	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	108-90-7	Chlorobenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	124-48-1	Chlorodibromomethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-00-3	Chloroethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	67-66-3	Chloroform	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	74-87-3	Chloromethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	156-59-2	cis-1,2 dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12		cis-1,3 Dichloropropene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	74-95-3	Dibromomethane	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	97-63-2	Ethyl methacrylate	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12		Freon 113	ND	mg / Kg	1	0.035	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-71-8	Freon 12	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	1634-04-4	Methyl t-butyl ether (MTBE)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-09-2	Methylene chloride	ND	mg / Kg	1	0.05	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	91-20-3	Naphthalene	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	100-42-5	Styrene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	156-60-5	t-1,2 Dichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	10061-02-6	t-1,3 Dichloropropene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	127-18-4	Tetrachloroethene (PCE)	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	79-01-6	Trichloroethene	ND	mg / Kg	1	0.005	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	75-69-4	Trichlorofluoromethane	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03
X03622	XG.2003.2288.12	108-05-4	Vinyl acetate	ND	mg / Kg	1	0.025	1	12-22-03	12-22-03

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **CRI**
Project: **TOMS CO**
Order: **0312387** **CRI01** Receipt: **12-11-03**

Sample: ***2*** Collected: *12-10-03 10:00:00* By: *DP*
Matrix: ***SAND***

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0312387-02A		**SW846 8260B Purgeable VOCs by GC/MS**						By:	VA/CWJ	
X03622	XG.2003.2288.12	75-01-4	Vinyl chloride	ND	mg / Kg	1	0.01	1	12-22-03	12-22-03
0312387-02A		**SW846 Sect. 7.3**						By:	NJL	
W03507	WC.2003.3055.5	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		12-16-03	12-17-03
W03507	WC.2003.3082.4		Sulfide, Reactive	ND	mg / Kg	1	500		12-16-03	12-17-03
0312387-02A		**SW846-9045C**						By:	NJL	
SPH0342	WC.2003.3061.5		pH	8.7	units	1	0.1	2	12-17-03	12-17-03
SPH0342	WC.2003.3061.5		solid pH measured in water @	21.4	deg C	1	0		12-17-03	12-17-03
0312387-02B		**SW846 1311/3010A/6010B ICP TCLP**						By:	KDW	
M031719	MT.2003.1833.23	7440-38-2	Arsenic	ND	mg / L	1	0.2		12-24-03	12-29-03
M031719	MT.2003.1832.19	7440-39-3	Barium	1.0	mg / L	1	0.2		12-24-03	12-29-03
M031719	MT.2003.1833.23	7440-43-9	Cadmium	ND	mg / L	1	0.02		12-24-03	12-29-03
M031719	MT.2003.1833.23	7440-47-3	Chromium	0.33	mg / L	1	0.02		12-24-03	12-29-03
M031719	MT.2003.1833.23	7439-92-1	Lead	0.13	mg / L	1	0.1		12-24-03	12-29-03
M031719	MT.2003.1833.23	7782-49-2	Selenium	ND	mg / L	1	0.05		12-24-03	12-29-03
M031719	MT.2003.1832.19	7440-22-4	Silver	ND	mg / L	1	0.04		12-24-03	12-29-03
0312387-02B		**SW846 1311/7470A CVAA TCLP**						By:	DAH	
M031720	MT.2003.1821.41	7439-97-6	Mercury	ND	mg / L	1	0.0002		12-24-03	12-24-03

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.

1 Sample was received with headspace.

2 The pH batch was analyzed at 14:00.

MEMO: Please note that Sample 2 was received in an improper container.

Chain of Custody Record

ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558

Lab Job No. 0312380 Date 12-10-03

Page 1 of 1

Client CRI

Address Box 388

City / State / Zip Hobbs NM 88241

Project Name / Number Tomsco

Contract / Purchase Order / Quote

Project Manager / Contact David Parsons

Telephone No. 505-393-1079

Fax No. 505-393-3615

Samplers : (signature) D. Parsons

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation: Temp.	Preservation: Chemical	Analysis Required: No. of Containers	Remarks
01AB	1	12-10-03	10:00	Sand	½ gal		Ice	✓	
02AB	2	12-10-03	10:00	Sand	QT		Ice	✓	

Relinquished by:
Signature D. Parsons
Printed David Parsons
Company CRI
Reason

Date 12-10-03
Time 10:10 a.m.

Received by:
Signature
Printed
Company AAL
Reason
12/11/03 1240

Relinquished by:
Signature
Printed
Company
Reason

Date
Time

Received by:
Signature
Printed
Company
Reason

Method of Shipment TNMTD
Shipment No. 903-112-460-8
Special Instructions:

Comments: CUSTODY SEAL BROKEN 12/11/03 1245
60°

After analysis, samples are to be:
- ❑ Disposed of (additional fee)
- ❑ Stored (30 days max)
- ❑ Stored over 30 days (additional fee)
- ❑ Returned to customer

CARRIER

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
JAN 1 2 2004
OIL CONSERVATION DIVISION

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Navajo Refining
	5. Originating Site Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-07-04

Activated Alumina from Alky unit.

Activated Alumina used in Alky unit.

Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Custody

This approval is good thru 01-07-05.

Estimated Volume 400 yards/annually. Known Volume (to be entered by the operator at the end of the haul) _____

RECEIVED JAN 2004 Hobbs OCD

SIGNATURE Kim Flowers TITLE: Rep DATE: 01-07-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

01-08-04

(This space for State Use)

APPROVED BY: _____ TITLE: Envira Engr DATE: 1.8.04

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 1-8-04

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: Activated alumina from our Alky Unit

ESTIMATED VOLUME: **100 yards** qrtly

GENERATING PROCESS: activated alumina used in our alky unit

REMARKS: **TCLP analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **D and J Waste**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR. Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: _____
SIGNATURE

NAME: **Charlie Plemale**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 1/7/04

NAVAJO REFINING COMPANY, L.P.

FAX
(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX
(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

January 7, 2004

Ken Marsh
CRI
P.O. Box 388
Hobbs, NM 88214

Post-it® Fax Note 7671	Date 1-7-04	# of pages ▶ 18
To KEN MARSH	From Charlie Plymale	
Co./Dept. CRI	Co. Navajo Refining	
Phone #	Phone #	
Fax # 505-393-3615	Fax #	

Ken,

I would like to re-profile activated alumina from our sulfur recovery units into your facility. We would also like to profile the activated alumina from our Alky Unit. This material is NON HAZARDOUS by TCLP. I am enclosing a copy of the TCLP from e-Lab.

If you have any question feel free to contact me at (505) 746-5241 or (505) 365-4298.

Sincerely,

Charlie Plymale
Sr. Environmental Specialist

e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

December 30, 2003

Charlie Plymale
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5241
Fax: (505) 746-5421

Re: TCLP Parameters Work Order : **0312193**

Dear Charlie Plymale,

e-Lab, Inc. received 3 samples on 12/17/2003 9:22:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 28.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrina A. Dathorne

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: *December 30, 2003*

CLIENT: Navajo Refining Company
Project: TCLP Parameters
Work Order: 0312193

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
NH 0312193-01	SRU Act Alumina	Solid		12/16/2003 10:40	12/17/2003 09:22	☐
NH 0312193-02	Alky Act Alumina	Solid		12/16/2003 10:30	12/17/2003 09:22	☐

e-Lab, Inc.

Date: *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-01

Client Sample ID: SRU Act Alumina
Collection Date: 12/16/2003 10:40:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP MERCURY		**SW7470**			Prep Date: **12/22/2003**	Analyst: **MG**
Mercury	ND	0.00200		mg/L	1	12/23/2003 4:19:55 PM
TCLP METALS, ICP		**SW1311/6020**			Prep Date: **12/19/2003**	Analyst: **SA**
Arsenic	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Barium	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Cadmium	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Chromium	0.0697	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Lead	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Selenium	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Silver	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
TCLP SEMIVOLATILES		**SW1311/8270**			Prep Date: **12/19/2003**	Analyst: **HV**
2,4,5-Trichlorophenol	ND	10		µg/L	1	12/22/2003 5:37:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	12/22/2003 5:37:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Cresols, Total	ND	30		µg/L	1	12/22/2003 5:37:00 PM
Hexachlorobenzene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Hexachloroethane	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Nitrobenzene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Pentachlorophenol	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Pyridine	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Surr: 2,4,6-Tribromophenol	93.3	45-146		%REC	1	12/22/2003 5:37:00 PM
Surr: 2-Fluorobiphenyl	79.5	55-120		%REC	1	12/22/2003 5:37:00 PM
Surr: 2-Fluorophenol	54.8	21-110		%REC	1	12/22/2003 5:37:00 PM
Surr: 4-Terphenyl-d14	94.1	42-153		%REC	1	12/22/2003 5:37:00 PM
Surr: Nitrobenzene-d5	77.6	51-117		%REC	1	12/22/2003 5:37:00 PM
Surr: Phenol-d6	32.1	10-110		%REC	1	12/22/2003 5:37:00 PM
TCLP VOLATILES		**SW1311/8260B**			Prep Date: **12/17/2003**	Analyst: **HLBW**
1,1-Dichloroethene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
1,2-Dichloroethane	ND	100		µg/L	20	12/26/2003 3:30:00 PM
1,4-Dichlorobenzene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
2-Butanone	ND	200		µg/L	20	12/26/2003 3:30:00 PM
Benzene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Carbon tetrachloride	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Chlorobenzene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Chloroform	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Tetrachloroethene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Trichloroethene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Vinyl chloride	ND	100		µg/L	20	12/26/2003 3:30:00 PM

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc. **Date:** *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-01

Client Sample ID: SRU Act Alumina
Collection Date: 12/16/2003 10:40:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	20	12/26/2003 3:30:00 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%REC	20	12/26/2003 3:30:00 PM
Surr: Dibromofluoromethane	94.9	70-130		%REC	20	12/26/2003 3:30:00 PM
Surr: Toluene-d8	93.5	70-130		%REC	20	12/26/2003 3:30:00 PM
CYANIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Cyanide	0.0545	0.0300		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Sulfide	ND	40.0		mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		**SW846, CHPT. 7.1.2**				Analyst: **MG**
Burns vigorously and persistently	No				1	12/18/2003
Ignites spontaneously	No				1	12/18/2003
Ignites through friction	No				1	12/18/2003
Ignites under std. temp and pressure	No				1	12/18/2003
Ignites with moisture	No				1	12/18/2003
PH IN SOLID		**SW9045B**				Analyst: **MG**
pH	3.60*	0.100		pH Units	1	12/18/2003

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-02

Client Sample ID: Alky Act Alumina
Collection Date: 12/16/2003 10:30:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP MERCURY			**SW7470**		Prep Date: **12/22/2003**	Analyst: **MG**
Mercury	ND	0.00200		mg/L	1	12/23/2003 4:31:10 PM
TCLP METALS, ICP			**SW1311/6020**		Prep Date: **12/19/2003**	Analyst: **SA**
Arsenic	0.308	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Barium	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Cadmium	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Chromium	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Lead	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Selenium	0.0510	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Silver	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
TCLP SEMIVOLATILES			**SW1311/8270**		Prep Date: **12/19/2003**	Analyst: **HV**
2,4,5-Trichlorophenol	ND	10		µg/L	1	12/22/2003 6:28:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	12/22/2003 6:28:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Cresols, Total 1.5 mg/L	1,500	300		µg/L	10	12/23/2003 8:20:00 PM
Hexachlorobenzene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Hexachloroethane	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Nitrobenzene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Pentachlorophenol	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Pyridine .84 mg/L	840	100		µg/L	10	12/23/2003 8:20:00 PM
Surr: 2,4,6-Tribromophenol	91.2	46-148		%REC	1	12/22/2003 6:28:00 PM
Surr: 2,4,6-Tribromophenol	136	46-146		%REC	10	12/23/2003 8:20:00 PM
Surr: 2-Fluorobiphenyl	83.2	55-120		%REC	1	12/22/2003 6:28:00 PM
Surr: 2-Fluorobiphenyl	108	55-120		%REC	10	12/23/2003 8:20:00 PM
Surr: 2-Fluorophenol	58.6	21-110		%REC	1	12/22/2003 6:28:00 PM
Surr: 2-Fluorophenol	70.0	21-110		%REC	10	12/23/2003 8:20:00 PM
Surr: 4-Terphenyl-d14	95.4	42-153		%REC	10	12/23/2003 8:20:00 PM
Surr: 4-Terphenyl-d14	112	42-153		%REC	1	12/22/2003 6:28:00 PM
Surr: Nitrobenzene-d5	97.6	51-117		%REC	1	12/22/2003 6:28:00 PM
Surr: Nitrobenzene-d5	110	51-117		%REC	10	12/23/2003 8:20:00 PM
Surr: Phenol-d6	48.2	10-110		%REC	1	12/22/2003 6:28:00 PM
Surr: Phenol-d6	43.3	10-110		%REC	10	12/23/2003 8:20:00 PM
TCLP VOLATILES			**SW1311/8260B**		Prep Date: **12/17/2003**	Analyst: **HLBW**
1,1-Dichloroethene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
1,2-Dichloroethane	ND	100		µg/L	20	12/26/2003 4:27:00 PM
1,4-Dichlorobenzene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
2-Butanone	5,400	200		µg/L	20	12/26/2003 4:27:00 PM
Benzene	ND	100		µg/L	20	12/26/2003 4:27:00 PM

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc. **Date:** *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-02

Client Sample ID: Alky Act Alumina
Collection Date: 12/16/2003 10:30:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Chlorobenzene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Chloroform	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Tetrachloroethene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Trichloroethene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Vinyl chloride	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	20	12/26/2003 4:27:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%REC	20	12/26/2003 4:27:00 PM
Surr: Dibromofluoromethane	96.1	70-130		%REC	20	12/26/2003 4:27:00 PM
Surr: Toluene-d8	92.6	70-130		%REC	20	12/26/2003 4:27:00 PM
CYANIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Cyanide	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Sulfide	ND	40.0		mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		**SW846, CHPT. 7.1.2**				Analyst: **MG**
Burns vigorously and persistently	No				1	12/18/2003
Ignites spontaneously	No				1	12/18/2003
Ignites through friction	No				1	12/18/2003
Ignites under std. temp and pressure	No				1	12/18/2003
Ignites with moisture	No				1	12/18/2003
PH IN SOLID		**SW9045B**				Analyst: **MG**
pH	6.99	0.100		pH Units	1	12/18/2003

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

W.O.# 0612475

Page ____ of ____

5701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806)-794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #:

Company Name: NAVAJO

Phone #:

Address: (Street, City, Zip)

Fax #:

Contact Person: Charlie Phynade

Invoice to: (If different from above)

Project #:

Project Name: Misc TCLP

Project Location:

Sampler Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Other	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	Ice	NONE	Other	SAMPLING: DATE	TIME
	SRU Act Alumina	1	100		X			X					X	X		12/16/03	1040
	Alky Act Alumina	1	100					X					X	X		12/16/03	1030
	CCR Heater Blastsand	1	100	X				X					X	X		12/16/03	1000

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag Ac Ba Cd Cr Pb Se Hg 8010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
					X	X	X		X							
					X	X	X		X							
					X	X	X		X							

Relinquished by: Date: 12/16/03 Time: 1615

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: RICHARD SACHO Date: 12-17-03 Time: 0811

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY

Intact Y N

Headspace Y N

Temp

Log-In Review

Carrier #

REMARKS:

☐ Check If Special Reporting Limits Are Needed

e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 12/17/2003 9:22:00 AM

Work Order Number 0312193

Received by: RSZ

Checklist completed by [signature] 12/17/03 (Signature / Date)

Reviewed by [initials] 12/18/03 (Initials / Date)

Matrix: S

Carrier name: E-Lab

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping 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 received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2c	003	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

e-Lab, Inc

Date: *December 30, 2003*

CLIENT: e-Lab, Inc
Project: 0312193
Work Order: 0312281

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0312281-01	0312193-01B	Solid		12/16/2003 10:40	12/19/2003 10:40	☐
0312281-02	0312193-02B	Solid		12/16/2003 10:30	12/19/2003 10:40	☐
0312281-03	0312193-03B	Solid		12/16/2003 10:00	12/19/2003 10:40	☐

e-Lab, Inc

Date: *December 30, 2003*

CLIENT: e-Lab, Inc
Work Order: 0312281
Project: 0312193

Lab ID: 0312281-01A
Collection Date: 12/16/2003 10:40:00 AM
Client Sample ID: 0312193-01B
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE		EPA 7.3.3.2				Analyst: KAE
Cyanide, Reactive	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		EPA 7.3.4.2				Analyst: KAE
Sulfide, Reactive	ND	40.0		mg/Kg	1	12/29/2003

Lab ID: 0312281-02A
Collection Date: 12/16/2003 10:30:00 AM
Client Sample ID: 0312193-02B
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE		EPA 7.3.3.2				Analyst: KAE
Cyanide, Reactive	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		EPA 7.3.4.2				Analyst: KAE
Sulfide, Reactive	ND	40.0		mg/Kg	1	12/29/2003

Lab ID: 0312281-03A
Collection Date: 12/16/2003 10:00:00 AM
Client Sample ID: 0312193-03B
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE		EPA 7.3.3.2				Analyst: KAE
Cyanide, Reactive	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		EPA 7.3.4.2				Analyst: KAE
Sulfide, Reactive	ND	40.0		mg/Kg	1	12/29/2003

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc

Date: *Dec 30 2003*

CLIENT: e-Lab, Inc
Work Order: 0312281
Project: 0312193

QC BATCH REPORT

Batch ID: R16310 InstrumentID: WETCHEM

MBLK	Sample ID: WBLKW1-121803		Test Code: EPA 7.3.3.2	Units: mg/Kg	Analysis Date 12/18/03 0:00
Client ID:	Run ID: WETCHEM_031218A	SeqNo: 265613	Prep Date:		DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	0.50								

MBLK	Sample ID: WBLKR1-122903		Test Code: EPA 7.3.3.2	Units: mg/Kg	Analysis Date 12/29/03 0:00
Client ID:	Run ID: WETCHEM_031218A	SeqNo: 267763	Prep Date:		DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	0.50								

LCS	Sample ID: WLCSW1-121803		Test Code: EPA 7.3.3.2	Units: mg/Kg	Analysis Date 12/18/03 0:00
Client ID:	Run ID: WETCHEM_031218A	SeqNo: 265614	Prep Date:		DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	3.923	0.50	16.95	0	23.1	5-100	0			

LCS	Sample ID: WLCSR1-122903		Test Code: EPA 7.3.3.2	Units: mg/Kg	Analysis Date 12/29/03 0:00
Client ID:	Run ID: WETCHEM_031218A	SeqNo: 267764	Prep Date:		DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	3.664	0.50	16.95	0	21.6	5-100	0			

The following samples were analyzed in this batch: 0312281-01A 0312281-02A 0312281-03A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: c-Lab, Inc
Work Order: 0312281
Project: 0312193

QC BATCH REPORT

Batch ID: R18453 InstrumentID: WETCHEM

MBLK Sample ID: WBLKR1-122803 Test Code: EPA 7.3.4.2 Units: mg/Kg Analysis Date 12/28/03 8:00
Client ID: Run ID: WETCHEM_031229H SeqNo: 267706 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch: 0312281-01A 0312281-02A 0312281-03A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised June 10, 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Navajo Refining
	5. Originating Site Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East Main, Artesia, NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-07-04A

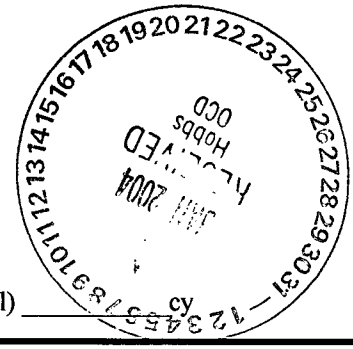
Activated Alumina from sulfur recovery unit.

Activated Alumina used in sulfur recovery unit.

Enclosed is non-exempt certificate of waste status and Analytical results and Chain of Custody

This approval is good thru 01-07-05.

Estimated Volume 400 yards/annually. Known Volume (to be entered by the operator at the end of the haul) _____ cy



SIGNATURE Kim Flowers TITLE: Rep DATE: 01-07-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

1-010864-010

(This space for State Use)

APPROVED BY: _____ TITLE: Envirn Engr DATE: 1.8.04

APPROVED BY: Environmental Geologist TITLE: Environmental Geologist DATE: 1-8-04

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: Activated alumina from sulfur recovery units

ESTIMATED VOLUME: **300 yards** qrtly

GENERATING PROCESS: activated alumina used in sulfur recovery units

REMARKS: **TCLP analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorporated**

TRUCKING COMPANY: **D and J Waste**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: _____
SIGNATURE

NAME: **Charlie Plymale**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 1/7/04

NAVAJO REFINING COMPANY, L.P.

FAX
(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX
(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

January 7, 2004

Ken Marsh
CRI
P.O. Box 388
Hobbs, NM 88214

Post-It® Fax Note 7671	Date 1-7-04	# of pages ▶ 18
To KEN MARSH	From CHARLIE PLYMALE	
Co./Dept. CRI	Co. NAVAJO Refining	
Phone #	Phone #	
Fax # 505-393-3615	Fax #	

Ken,

I would like to re-profile activated alumina from our sulfur recovery units into your facility. We would also like to profile the activated alumina from our Alky Unit. This material is NON HAZARDOUS by TCLP. I am enclosing a copy of the TCLP from e-Lab.

If you have any question feel free to contact me at (505) 746-5241 or (505) 365-4298.

Sincerely,

Charlie Plymale
Sr. Environmental Specialist

e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

December 30, 2003

Charlie Plymale
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5241
Fax: (505) 746-5421

Re: TCLP Parameters Work Order : **0312193**

Dear Charlie Plymale,

e-Lab, Inc. received 3 samples on 12/17/2003 9:22:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 28.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrina A. Dethome

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: *December 30, 2003*

CLIENT: Navajo Refining Company
Project: TCLP Parameters
Work Order: 0312193

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
NH -0312193-01	SRU Act Alumina	Solid		12/16/2003 10:40	12/17/2003 09:22	☐
NH -0312193-02	Alky Act Alumina	Solid		12/16/2003 10:30	12/17/2003 09:22	☐

e-Lab, Inc.

Date: *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-01

Client Sample ID: SRU Act Alumina
Collection Date: 12/16/2003 10:40:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP MERCURY		**SW7470**			Prep Date: **12/22/2003**	Analyst: **MG**
Mercury	ND	0.00200		mg/L	1	12/23/2003 4:19:55 PM
TCLP METALS, ICP		**SW1311/6020**			Prep Date: **12/19/2003**	Analyst: **SA**
Arsenic	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Barium	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Cadmium	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Chromium	0.0697	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Lead	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Selenium	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
Silver	ND	0.0500		mg/L	10	12/23/2003 8:22:00 PM
TCLP SEMIVOLATILES		**SW1311/8270**			Prep Date: **12/19/2003**	Analyst: **HV**
2,4,5-Trichlorophenol	ND	10		µg/L	1	12/22/2003 5:37:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	12/22/2003 5:37:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Cresols, Total	ND	30		µg/L	1	12/22/2003 5:37:00 PM
Hexachlorobenzene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Hexachloroethane	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Nitrobenzene	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Pentachlorophenol	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Pyridine	ND	10		µg/L	1	12/22/2003 5:37:00 PM
Surr: 2,4,6-Tribromophenol	93.3	45-146		%REC	1	12/22/2003 5:37:00 PM
Surr: 2-Fluorobiphenyl	79.5	55-120		%REC	1	12/22/2003 5:37:00 PM
Surr: 2-Fluorophenol	54.8	21-110		%REC	1	12/22/2003 5:37:00 PM
Surr: 4-Terphenyl-d14	84.1	42-153		%REC	1	12/22/2003 5:37:00 PM
Surr: Nitrobenzene-d5	77.6	51-117		%REC	1	12/22/2003 5:37:00 PM
Surr: Phenol-d6	32.1	10-110		%REC	1	12/22/2003 5:37:00 PM
TCLP VOLATILES		**SW1311/8260B**			Prep Date: **12/17/2003**	Analyst: **HLBW**
1,1-Dichloroethene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
1,2-Dichloroethane	ND	100		µg/L	20	12/26/2003 3:30:00 PM
1,4-Dichlorobenzene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
2-Butanone	ND	200		µg/L	20	12/26/2003 3:30:00 PM
Benzene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Carbon tetrachloride	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Chlorobenzene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Chloroform	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Tetrachloroethene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Trichloroethene	ND	100		µg/L	20	12/26/2003 3:30:00 PM
Vinyl chloride	ND	100		µg/L	20	12/26/2003 3:30:00 PM

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc. **Date:** *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-01

Client Sample ID: SRU Act Alumina
Collection Date: 12/16/2003 10:40:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%REC	20	12/26/2003 3:30:00 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%REC	20	12/26/2003 3:30:00 PM
Surr: Dibromofluoromethane	94.9	70-130		%REC	20	12/26/2003 3:30:00 PM
Surr: Toluene-d8	93.5	70-130		%REC	20	12/26/2003 3:30:00 PM
CYANIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Cyanide	0.0545	0.0300		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Sulfide	ND	40.0		mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		**SW846, CHPT. 7.1.2**				Analyst: **MG**
Burns vigorously and persistently	No				1	12/18/2003
Ignites spontaneously	No				1	12/18/2003
Ignites through friction	No				1	12/18/2003
Ignites under std. temp and pressure	No				1	12/18/2003
Ignites with moisture	No				1	12/18/2003
PH IN SOLID		**SW9045B**				Analyst: **MG**
pH	3.60	0.100		pH Units	1	12/18/2003

Qualifiers:

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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc. **Date:** *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-02

Client Sample ID: Alky Act Alumina
Collection Date: 12/16/2003 10:30:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
TCLP MERCURY			**SW7470**		Prep Date: **12/22/2003**	Analyst: **MG**
Mercury	ND	0.00200		mg/L	1	12/23/2003 4:31:10 PM
TCLP METALS, ICP			**SW1311/6020**		Prep Date: **12/19/2003**	Analyst: **SA**
Arsenic	0.308	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Barium	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Cadmium	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Chromium	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Lead	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Selenium	0.0510	0.0500		mg/L	10	12/24/2003 12:37:00 PM
Silver	ND	0.0500		mg/L	10	12/24/2003 12:37:00 PM
TCLP SEMIVOLATILES			**SW1311/8270**		Prep Date: **12/19/2003**	Analyst: **HV**
2,4,5-Trichlorophenol	ND	10		µg/L	1	12/22/2003 6:28:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	12/22/2003 6:28:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Cresols, Total 1.5 mg/L	1,500	300		µg/L	10	12/23/2003 8:20:00 PM
Hexachlorobenzene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Hexachloroethane	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Nitrobenzene	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Pentachlorophenol	ND	10		µg/L	1	12/22/2003 6:28:00 PM
Pyridine .84 mg/L	840	100		µg/L	10	12/23/2003 8:20:00 PM
Surr: 2,4,6-Tribromophenol	91.2	45-148		%REC	1	12/22/2003 6:28:00 PM
Surr: 2,4,6-Tribromophenol	136	45-146		%REC	10	12/23/2003 8:20:00 PM
Surr: 2-Fluorobiphenyl	83.2	55-120		%REC	1	12/22/2003 6:28:00 PM
Surr: 2-Fluorobiphenyl	108	55-120		%REC	10	12/23/2003 8:20:00 PM
Surr: 2-Fluorophenol	58.6	21-110		%REC	1	12/22/2003 6:28:00 PM
Surr: 2-Fluorophenol	70.0	21-110		%REC	10	12/23/2003 8:20:00 PM
Surr: 4-Terphenyl-d14	96.4	42-153		%REC	10	12/23/2003 8:20:00 PM
Surr: 4-Terphenyl-d14	112	42-153		%REC	1	12/22/2003 6:28:00 PM
Surr: Nitrobenzene-d5	97.6	51-117		%REC	1	12/22/2003 6:28:00 PM
Surr: Nitrobenzene-d5	110	51-117		%REC	10	12/23/2003 8:20:00 PM
Surr: Phenol-d6	48.2	10-110		%REC	1	12/22/2003 6:28:00 PM
Surr: Phenol-d6	43.3	10-110		%REC	10	12/23/2003 8:20:00 PM
TCLP VOLATILES			**SW1311/8260B**		Prep Date: **12/17/2003**	Analyst: **HLBW**
1,1-Dichloroethene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
1,2-Dichloroethane	ND	100		µg/L	20	12/26/2003 4:27:00 PM
1,4-Dichlorobenzene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
2-Butanone	5,400	200		µg/L	20	12/26/2003 4:27:00 PM
Benzene	ND	100		µg/L	20	12/26/2003 4:27:00 PM

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: *December 30, 2003*

CLIENT: Navajo Refining Company
Work Order: 0312193
Project: TCLP Parameters
Lab ID: 0312193-02

Client Sample ID: Alky Act Alumina
Collection Date: 12/16/2003 10:30:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Chlorobenzene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Chloroform	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Tetrachloroethene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Trichloroethene	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Vinyl chloride	ND	100		µg/L	20	12/26/2003 4:27:00 PM
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	20	12/26/2003 4:27:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%REC	20	12/26/2003 4:27:00 PM
Surr: Dibromofluoromethane	96.1	70-130		%REC	20	12/26/2003 4:27:00 PM
Surr: Toluene-d8	92.6	70-130		%REC	20	12/26/2003 4:27:00 PM
CYANIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Cyanide	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		**SW-846**				Analyst: **MAG**
Reactive Sulfide	ND	40.0		mg/Kg	1	12/29/2003
IGNITABILITY FOR SOLIDS		**SW846, CHPT. 7.1.2**				Analyst: **MG**
Burns vigorously and persistently	No				1	12/18/2003
Ignites spontaneously	No				1	12/18/2003
Ignites through friction	No				1	12/18/2003
Ignites under std. temp and pressure	No				1	12/18/2003
Ignites with moisture	No				1	12/18/2003
PH IN SOLID		**SW9045B**				Analyst: **MG**
pH	6.99	0.100		pH Units	1	12/18/2003

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
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

WO# 0612443

Page ____ of ____

5701 Aberdeen Avenue, Ste. 9
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1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #:

Company Name: NAVAJO Phone #:

Address: (Street, City, Zip) Fax #:

Contact Person: Charlie Phynale

Invoice to: (If different from above)

Project #: Project Name: Misc TCLP

Project Location: Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
	SRU Act Alumina	1	100		X								X	X	12/4/03	1640
	Alky Act. Alumina	1	100					X					X	X	12/4/03	1630
	CCR Heater Blastsand	1	100		X								X	X	12/4/03	1700

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
						X	X	X		X							
						X	X	X		X							
						X	X	X		X							

Relinquished by: Date: 12/11/03 Time: 1615 Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Date: Time:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp

Log-In Review

Carrier #

REMARKS:

☐ Check If Special Reporting Limits Are Needed

e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 12/17/2003 9:22:00 AM

Work Order Number 0312193

Received by: RSZ

Checklist completed by [signature] 12/17/03 (Signature / Date)

Reviewed by [initials] 12/18/03 (Initials / Date)

Matrix: S

Carrier name: E-Lab

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping 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 received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.2c	003	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

e-Lab, Inc

Date: *December 30, 2003*

CLIENT: e-Lab, Inc
Project: 0312193
Work Order: 0312281

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0312281-01	0312193-01B	Solid		12/16/2003 10:40	12/19/2003 10:40	☐
0312281-02	0312193-02B	Solid		12/16/2003 10:30	12/19/2003 10:40	☐
0312281-03	0312193-03B	Solid		12/16/2003 10:00	12/19/2003 10:40	☐

e-Lab, Inc

Date: *December 30, 2003*

CLIENT: e-Lab, Inc
Project: 0312193
Work Order: 0312281

Lab ID: 0312281-01A
Client Sample ID: 0312193-01B
Collection Date: 12/16/2003 10:40:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE		EPA 7.3.3.2				Analyst: KAE
Cyanide, Reactive	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		EPA 7.3.4.2				Analyst: KAE
Sulfide, Reactive	ND	40.0		mg/Kg	1	12/29/2003

Lab ID: 0312281-02A
Client Sample ID: 0312193-02B
Collection Date: 12/16/2003 10:30:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE		EPA 7.3.3.2				Analyst: KAE
Cyanide, Reactive	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		EPA 7.3.4.2				Analyst: KAE
Sulfide, Reactive	ND	40.0		mg/Kg	1	12/29/2003

Lab ID: 0312281-03A
Client Sample ID: 0312193-03B
Collection Date: 12/16/2003 10:00:00 AM
Matrix: SOLID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE		EPA 7.3.3.2				Analyst: KAE
Cyanide, Reactive	ND	0.500		mg/Kg	1	12/29/2003
SULFIDE, REACTIVE		EPA 7.3.4.2				Analyst: KAE
Sulfide, Reactive	ND	40.0		mg/Kg	1	12/29/2003

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
- P - Dual Column results percent difference > 40%
- E - Value above quantitation range
- H - Analyzed outside of Hold Time

e-Lab, Inc

CLIENT: e-Lab, Inc
Work Order: 0312281
Project: 0312193

Date: *Dec 30 2003*

QC BATCH REPORT

Batch ID: **R16310** InstrumentID: **WETCHEM**

MBLK Sample ID: **WBLKW1-121803** Test Code: **EPA 7.3.3.2** Units: **mg/Kg** Analysis Date **12/18/03 0:00**
Client ID: Run ID: **WETCHEM_031218A** SeqNo: **265613** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	0.50								

MBLK Sample ID: **WBLKR1-122903** Test Code: **EPA 7.3.3.2** Units: **mg/Kg** Analysis Date **12/29/03 0:00**
Client ID: Run ID: **WETCHEM_031218A** SeqNo: **267763** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	0.50								

LCS Sample ID: **WLCSW1-121803** Test Code: **EPA 7.3.3.2** Units: **mg/Kg** Analysis Date **12/18/03 0:00**
Client ID: Run ID: **WETCHEM_031218A** SeqNo: **265614** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	3.923	0.50	16.95	0	23.1	5-100	0			

LCS Sample ID: **WLCSR1-122903** Test Code: **EPA 7.3.3.2** Units: **mg/Kg** Analysis Date **12/29/03 0:00**
Client ID: Run ID: **WETCHEM_031218A** SeqNo: **267764** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	3.664	0.50	16.95	0	21.6	5-100	0			

The following samples were analyzed in this batch: 0312281-01A 0312281-02A 0312281-03A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

CLIENT: e-Lab, Inc
Work Order: 0312281
Project: 0312193

QC BATCH REPORT

Batch ID: R18453 InstrumentID: WETCHEM

MBLK Sample ID: WBLKR1-1ZZ803 Test Code: EPA 7.3.4.2 Units: mg/Kg Analysis Date 12/29/03 8:00
Client ID: Run ID: WETCHEM_031229H SeqNo: 267706 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	40								

The following samples were analyzed in this batch: 0312281-01A 0312281-02A 0312281-03A

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
O - Referenced analyte value is > 4 times amount spiked
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
P - Dual Column results percent difference > 40%
B - Analyte detected in assoc. Method Blank
U - Analyzed for but not detected
E - Value above quantitation range

District I
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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

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Energy Minerals and Natural Resources

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

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Revised June 10, 2003

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator BJ Services
	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2708 W County Rd, Hobbs,NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 01-05-04 (renewal of 04-24-02)

Sump Sludge generated from the washing of trucks.

This was previous approved 4-30-02, Analytical dated 04-19-02.

Enclosed is non-exempt certificate of waste status and copy of last C-138.

Estimated Volume approx. 250 bbls/monthly thru 11-18-04. Known Volume (to be entered by the operator at the end of the haul)
_____ cy

Approval Expires 4-30-04 Please Sample & Analize Waste Stream at that time.

SIGNATURE Kim Flowers TITLE: Rep DATE: 01-05-04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

017204-1

(This space for State Use)

APPROVED BY: _____ TITLE: Enviro Engr DATE: 1.06.04

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 1-12-04

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
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Oil Conservation Division
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt ☐ Non-Exempt X Verbal Approval Received Yes ☐ No X	4. Generator BJ Services
	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery Inc	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or U.S.T.R.) 2708 West Co. Rd., Hobbs	New Mexico

9. Circle One:

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

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is non-hazardous and the Generator's certification of origin. 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:

04-24-02

Sump Sludge generated from the washing of trucks

Enclosed is certificate of waste status, analytical data, and chain of custody to approve this waste stream until April 22, 2003. This material has been approved in the past.

Estimated Volume: approx. 220 bbls monthly cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Cornelia Van Maanen TITLE: Bookkeeper DATE: 04-24-02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Cornelia Van Maanen TELEPHONE NO: (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: Environmental Engr DATE: 4-26-02

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 4-30-02

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ SERVICES

ADDRESS 2708 WEST COUNTY ROAD, HOBBS, NM 88240

GENERATING SITE HOBBS FACILITY

COUNTY LEA STATE NM

TYPE OF WASTE SUMP SLUDGE

ESTIMATED VOLUME APPX. 250 BBLS. MONTHLY

GENERATING PROCESS WASHING TRUCKS

REMARKS

NMOCD FACILITY CONTROLLED RECOVERY, INC.

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT [signature] Todd Soper
SIGNATURE

NAME CHON RIVAS
PRINTED

ADDRESS 2708 WEST COUNTY ROAD
HOBBS, NM 88240

DATE 11-18-03

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
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

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Revised March 17, 1999

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator BJ Services
	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2708 West Co. Rd., Hobbs	New Mexico

9. Circle One:

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

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

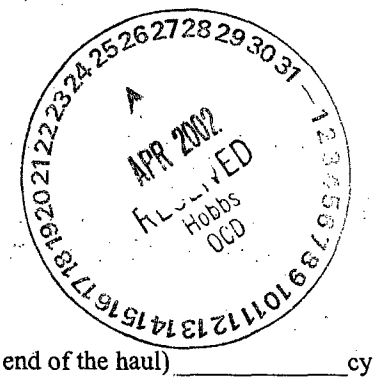
All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

04-24-02

Sump Sludge generated from the washing of trucks.

Enclosed is certificate of waste status, analytical data, and chain of custody to approve this waste stream until April 22, 2003. This material has been approved in the past.



Estimated Volume appx. 250 bbls monthly cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Carmella Van Maanen TITLE: Bookkeeper DATE: 04-24-02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO: (505) 393-1079

043002-2

(This space for State Use)

APPROVED BY: _____ TITLE: Environmental Engr DATE: 4-26-02

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 4-30-02

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
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Navajo Refining 5. Originating Site Artesia & Lovington
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter D & J
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 E Main, Artesia & Lovington Hwy, Hobbs, NM	

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL:

RE: 12-23-03A (renewal of previous 06-03-01) ✓ Analytical From 11/00 mjk

Asphalt generated from asphalt collected from clean-up of asphalt spills.

Enclosed is non-exempt certificate of waste status & letter stating process has not changed.
This approval is good thru 12-23-04.

DEC 2003 RECEIVED Hobbs OCD

Estimated Volume approx 250yd/annually Known Volume (to be entered by the operator at the end of the haul) ________cy

SIGNATURE [signature] TITLE: Rep DATE: 12-23-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

1-96-010

(This space for State Use)

APPROVED BY: ____________ TITLE: ____________ DATE: ____________

APPROVED BY: [signature] TITLE: Environmental Geologist DATE: 1-6-04

NAVAJO REFINING COMPANY, L.P.

FAX
(505) 746-5283 DIV. ORDERS
(505) 746-5481 TRUCKING
(505) 746-5458 PERSONNEL

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159
TELEPHONE (505) 748-3311

FAX
(505) 746-5419 ACCOUNTING
(505) 746-5451 EXEC/MKTG
(505) 746-5421 ENGINEERING
(505) 746-5480 PIPELINE

December 18, 2003

Ken Marsh
CRI
P.O. Box 388
Hobbs, NM 88214

Post-it® Fax Note 7671	Date 12/18/03	# of pages ▶ 6
To Ken Marsh	From Charlie Plymale	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 505 393 3615	Fax # 505 746 5283	

Ken,

I would like to have the asphalt C-138 extended for another year. This waste process has not changed.

I have also included analytical for new refractory brick that was generated during our recent turnaround. This consists of pieces and shavings from the installation of the new refractory brick. The refractory would be a one time disposal under this analytical. This material is NON HAZARDOUS and would be transported in 20 yard roll off bins by D & J waste haulers.

Sincerely,

Charlie Plymale
Sr. Environmental Specialist

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company—Lovington Refinery and Artesia Refinery.

COUNTY: Eddy AND Lea

STATE: NM

TYPE OF WASTE: Asphalt

ESTIMATED VOLUME: 250 yards

GENERATING PROCESS: Asphalt collected from clean-up of asphalt spills Spill.

REMARKS: This waste has been approved in the past .

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: D and J in a 20 yard roll off bin

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: _____
SIGNATURE

NAME: Charlie Plymale
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA,NM 88210

DATE: 12/18/03

hp officejet d135
printer/fax/scanner/copier

Fax-History Report for
C R I
5053933615
Dec 18 2003 4:27pm

Last Transaction

Date	Time	Type	Identification	Duration	Pages	Result
Dec 18	4:23pm	Received	505 746 5283	1:16	6	OK

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Oil Conservation Division
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Santa Fe, NM 87505

Form C-138
Revised June 10, 2003

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: X ☐Verbal Approval Received: Yes ☐ No X	4. Generator Quail Tools 5. Originating Site Odessa, TX
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs, NM 88241	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 400 Alabama, Odessa, TX	

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.

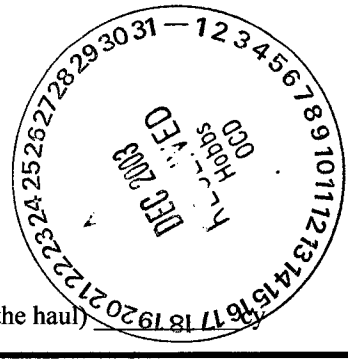
BRIEF DESCRIPTION OF MATERIAL:

RE: 12-23-03 (renewal of previous 09-27-01)

Pipe Scale generated from rattling operations during pipe cleaning.

Enclosed is non-exempt certificate of waste status, analytical data and chain of custody.
This approval is good thru 12-23-04. mjk See note Below on NORM

Estimated Volume approx 60 yd/annually Known Volume (to be entered by the operator at the end of the haul)



SIGNATURE Kim Flowers TITLE: Rep DATE: 12-23-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kim Flowers TELEPHONE NO. (505)393-1079

E-MAIL ADDRESS david@crihobbs.com

011204-2

(This space for State Use)

APPROVED BY: TITLE: Environmental Engr DATE: 12-24-03

APPROVED BY: Martyn J Kieling conditional on NORM ANALYSIS TITLE: Environmental Geologist DATE: 1-12-03

Norm Analysis Recieved on 4-7-04

Apr-06-04 02:07pm From-QUAIL TOOLS +3373652554 T-355 P.01/02 F-090

Quail Tools, LLP

A Parker Company

Fax

Date: April 6, 2004

To: David Parsons

Company: CRI

Fax No.: 505-393-3615

From: George Gisclaire

Total No. of Pages: 2 (Including cover page)

Comments:

Hi Mr. Parsons
Attached please find a NORM survey that we conducted in our Odessa Facility. Please let me know if this is acceptable. If it is I would like to schedule a truck to haul our pipe scale in to you facility as soon as we can.
Thank You
George Gisclaire

Please report any transmission problems to:
George Gisclaire
(337) 365-8154 or (337) 235-9942 Phone
(337) 365-2554 Fax

****

NORM SURVEY FOR C.R.I.

DATE 4/5/04 TIME 5:00 PM

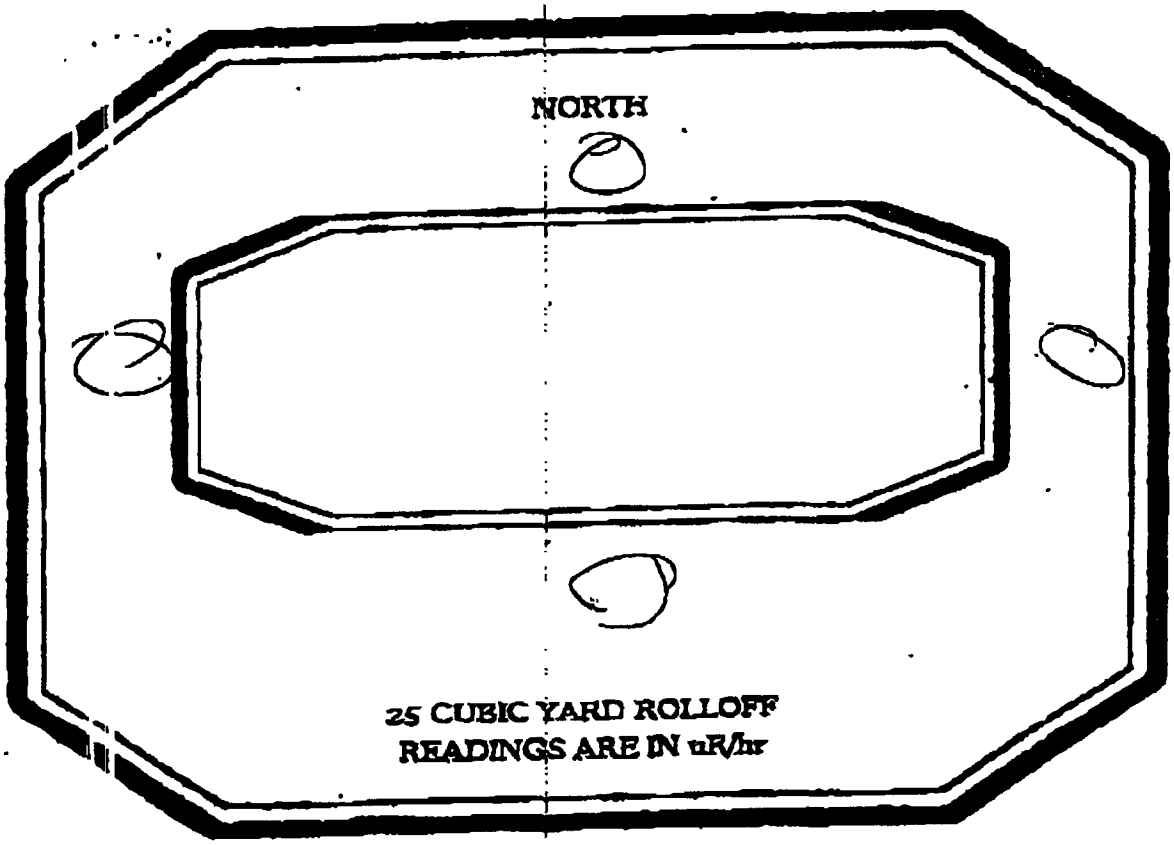
SURVEY PERFORMED BY Don Lacy

CLIENT: Quail Tool C.P. LOCATION: Odessa Tx

EXPOSURE RATE INSTRUMENT (TYPE, SERIAL#) Mod 13 S# 171088

CALIBRATION DUE DATE Jn 02 BACKGROUND READING ____ uR/hr

BATTERY & RESPONSE CHECKS SATISFACTORY? Yes



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR QUAIL TOOLS

ADDRESS 400 W. ALABAMA

GENERATING SITE Odessa, TX facility

COUNTY ECTOR STATE TEXAS

TYPE OF WASTE PIPE SCALE

ESTIMATED VOLUME ≈ 15 YD3

GENERATING PROCESS Rattling operations during pipe cleaning

REMARKS NON HAZARDOUS

NMOCD FACILITY CONTROLLED RECOVERY INC.

TRUCKING COMPANY TOTAL JETTING

As a condition of acceptance for disposal, I hearby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 2613.

AGENT Bo Vizcaino
SIGNATURE

NAME Bo Vizcaino
PRINTED

ADDRESS G E Industrial Corp
Midland, TX 79701

DATE 17 Dec 2003

AMARILLO:
921 North Bivins
Amarillo, TX 79107
806-467-0607
FAX: 806-467-0622
E-mail:
prescott@llano-permian.com

AUSTIN:
13009 Dessau Road
Suite A
Austin, TX 78754
512-989-3428
FAX: 512-989-3487
E-mail:
jfreeman@llano-permian.com

CORPUS CHRISTI:
600 Building
Suite 1624
600 Leopard
Corpus Christi, TX 78473
361-884-6400
FAX: 361-884-6426
E-mail:
aburnes@llano-permian.com

MIDLAND:
#9 East Industrial Loop
Midland, TX 79701
(915) 522-2133
FAX: 432-522-2180
E-mail:
jjames@llano-permian.com

NEW BRAUNFELS:
555 IH-35 South
Suite 320-1
New Braunfels, TX 78130
830-620-1634
FAX: 800-863-5670
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[illegible]

Environmental:
Biologists
Chemists
Corrective Action
Project Managers
Engineers
Geologists
Scientists

Toll Free: 866-742-0742
www.llano-permian.com

LLANO-PERMIAN ENVIRONMENTAL

9 East Industrial Loop, Midland, Texas 79701
(915) 522-2133 Phone (915) 522-2180 Fax

FACSIMILE TRANSMITTAL

DATE: 12/17/03 **TIME:** 1640

FROM: Bo Vizcaino
Llano-Permian Environmental

TO: Dave Parsons

COMPANY: CRI

RE: Disposal of Pipe Scale

FAX #: 505-393-3615 **NO. OF PAGES:** 8
(Including This Coversheet)

COMMENTS:

Here is the analytical for the pipe scale at Quail Tool. These materials are nonhazardous (Class 1). I have a bin full of the material. Can you please get this approved for disposal? Thank you.

ANALYTICAL REPORT

Prepared for:

BO VIZCAINO
LLANO-PERMIAN ENVIRONMENTAL
#9 EAST INDUSTRIAL LOOP
MIDLAND, TX 79701

Project:	Quail Tool
PO#:	
Order#:	G0307962
Report Date:	11/26/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LLANO-PERMIAN ENVIRONMENTAL
#9 EAST INDUSTRIAL LOOP
MIDLAND, TX 79701
522-2180

Order#: G0307962
Project: QUT.001.WD
Project Name: Quail Tool
Location: Odessa, Tx

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0307962-01	Pipe Scale	SOLID	11/17/03 17:00	11/17/03 17:23	4 oz glass	Ice

Lab Testing: Rejected: No Temp: 22.0C

8260B TCLP
8270C Semivolatile Organics - TCLP
METALS RCRA 7 TCLP
RCI
Mercury, TCLP
TPH 418.1 FTIR

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

BO VIZCAINO
LLANO-PERMIAN ENVIRONMENTAL
#9 EAST INDUSTRIAL LOOP
MIDLAND, TX 79701

Order#: G0307962
Project: QUT.001.WD
Project Name: Quail Tool
Location: Odessa, Tx

Lab ID: 0307962-01
Sample ID: Pipe Scale

8260B TCLP

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0007563-02	11/18/03	11/25/03 20:53	5	1	CK	1311/8260B

Parameter	Result µg/L	RL
Carbon tetrachloride	<1	1.00
Benzene	<1	1.00
1,2-Dichloroethane	<1	1.00
Chlorobenzene	<1	1.00
1,1-Dichloroethene	<1	1.00
1,4-Dichlorobenzene	<1	1.00
2-Butanone (MEK)	<1	1.00
Chloroform	<1	1.00
Tetrachloroethene	<1	1.00
Trichloroethene	<1	1.00
Vinyl chloride	<1	1.00

Surrogates	% Recovered	QC Limits (%)	
Dibromofluoromethane	129%	63	144
1,2-dichloroethane-d4	123%	57	147
Toluene-d8	110%	64	128
4-Bromofluorobenzene	109%	47	158

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

RO VIZCAINO
LLANO-PERMIAN ENVIRONMENTAL
#9 EAST INDUSTRIAL LOOP
MIDLAND, TX 79701

Order#: G0307962
Project: QUT.001.WD
Project Name: Quail Tool
Location: Odessa, Tx

Lab ID: 0307962-01
Sample ID: Pipe Scale

8270C Semivolatile Organics - TCLP

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0007544-02	11/21/03	11/21/03 21:41	1	1	CK	1311/8270C

Parameter	Result µg/L	RL
Pyridine	<5.00	5.00
1,4-Dichlorobenzene	<5.00	5.00
2-Methylphenol	<5.00	5.00
Hexachloroethane	<5.00	5.00
Nitrobenzene	<5.00	5.00
Hexachlorobutadiene	<5.00	5.00
2,4,6-Trichlorophenol	<5.00	5.00
2,4,5-Trichlorophenol	<5.00	5.00
2,4-Dinitrotoluene	<5.00	5.00
Hexachlorobenzene	<5.00	5.00
Pentachlorophenol	<5.00	5.00
4-Methylphenol	<5.00	5.00

Surrogates	% Recovered	QC Limits (%)	
2-Fluorophenol	37%	21	110
Phenol-d5	25%	10	110
Nitrobenzene-d5	73%	23	120
2-Fluorobiphenyl	70%	30	116
2,4,6-Tribromophenol	80%	10	123
p-Terphenyl-d14	53%	18	137

Approval: Roland K. Tuttle 11-26-03
Date

Roland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezughe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

BO VIZCAINO
LLANO-PERMIAN ENVIRONMENTAL
#9 EAST INDUSTRIAL LOOP
MIDLAND, TX 79701

Order#: G0307962
Project: QUT.001.WD
Project Name: Quail Tool
Location: Odessa, Tx

Lab ID: 0307962-01
Sample ID: Pipe Scale

METALS RCRA 7 TCLP

Parameter	Result	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic	<0.008	mg/L	1	0.008	1311/6010B	11/18/2003	11/20/03	SM
Barium	0.253	mg/L	1	0.001	1311/6010B	11/18/2003	11/20/03	SM
Cadmium	<0.001	mg/L	1	0.001	1311/6010B	11/18/2003	11/20/03	SM
Chromium	0.009	mg/L	1	0.002	1311/6010B	11/18/2003	11/20/03	SM
Lead	0.025	mg/L	1	0.011	1311/6010B	11/18/2003	11/20/03	SM
Selenium	<0.004	mg/L	1	0.004	1311/6010B	11/18/2003	11/20/03	SM
Silver	0.065	mg/L	1	0.002	1311/6010B	11/18/2003	11/20/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Mercury, TCLP	<0.0005	mg/L	1	0.0005	1311/7470	11/18/2003	11/20/03	SM

Approval: Raland K Tuttle 11-26-03
Date

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biozugbe, Lab Tech.
Sara Molina, Lab Tech.

N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

BO VIZCAINO
LLANO-PERMIAN ENVIRONMENTAL
#9 EAST INDUSTRIAL LOOP
MIDLAND, TX 79701

Order#: G0307962
Project: QUT.001.WD
Project Name: Quail Tool
Location: Odessa, Tx

Lab ID: 0307962-01
Sample ID: Pipe Scale

RCI

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Ignitability	>100	C	1	NA	1010	11/18/03	JLH
pH	7.12	pH units	1	N/A	9045C	11/18/03	SB
Reactive Cyanide	<0.09	mg/kg	1	0.09	SW846 CH.7	11/18/03	SB
Reactive Sulfide	<5.00	mg/kg	1	5.00	SW846 CH.7	11/18/03	SB

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH 418.1 FTIR	4970	mg/kg	1	10.0	418.1	11/20/03	SB

Approval: Roland K Tuttle 11-26-03
Roland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Blezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: BO VIZCAINO
Company Name: LLANO - PERMIAN ENVIRONMENTAL
Company Address: 9 E INDUSTRIAL LOOP
City/State/Zip: MIDLAND, TX 79701
Telephone No: 432 522 2133 Fax No: 432 522 2180
Sampler Signature: Bo Vizcaino

Project Name: Quail Tool
Project #: QUT. 001. WO
Project Loc: Odessa, TX
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TDS/Cl/SAR/EC	TCLP: TPH 418.1	TCLP: TPH TX 1005/1006	TCLP: TPH 8015M GRO/DRO	TCLP: Metals: Ag As Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TOTAL: BTEX 8021B/5030	TOTAL: RCI	RUSH TAT (Pre-Schedule)	Standard TAT
030962-01	PIPE SCALE	11/17/03	1700	2	X					X					X	X				X	X	X	X	X		

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 22.0°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Jay D Fulton	11-17-03	1723			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Chris Ford	11/17/03	17:45