

NM1 - 9

C-138

YEAR(S):
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

RECEIVED

OCT 07 2003

OIL CONSERVATION
DIVISION

State of New Mexico
Energy Minerals and Natural Resources

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

Martynne Kieling
check
Xylene and
Benzene
Levels. This analysis
looks weird

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: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator SAFETY KLEEN
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site SAFETY KLEEN YARD
3. Address of Facility Operator #345 CR 3500 AZTEC NM	6. Transporter SAFETY KLEEN
7. Location of Material (Street Address or ULSTR)	8. State NM
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

OILFIELD WASTE WATER COLLECTED BY SAFETY KLEEN, INCLUDES PRODUCED WATER.

THIS IS THE SECOND ANALYTICAL, ORIGNAL C-138 APPROVED DATE 8-15-03



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

SIGNATURE Michael Talovich TITLE: FACILITY MANAGER DATE: 10-01-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Derry Feist TITLE: Enviro/Engl DATE: 10/2/03
APPROVED BY: Martynne Kieling TITLE: Environmental Geologist DATE: 10/7/03



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Safety Kleen Systems Inc. dba 4210 A Hawkins Road Farmington, NM 87401	2. Destination Name: Key Disposal
3. Originating Site (name): Safety Kleen Yard :ULSTR): Same as above attach list of originating sites as appropriate	
4. Source and Description of Waste Oilfield waste water-Non Exempt	

I, Mike Crawford representative for :
Print Name

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

EXEMPT oilfield waste

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

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

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

MSDS Information

Other (description)

X RCRA Hazardous Waste Analysis

X Chain of Custody

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

Name (Original Signature):

Mike B. Crawford

Title:

General Manager

OCT-01-2003(WED) 06:15

Hall Environmental Analysis Laboratory

Date: 30-Sep-03

CLIENT: Safety Kleen

Client Sample ID: SK Various

Lab Order: 0309166

Collection Date: 9/22/2003 1:00:00 PM

Project: Farm

Lab ID: 0309166-02

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BDH
Benzene	300	100		µg/L	100	9/24/2003
Toluene	750	100		µg/L	100	9/24/2003
Ethylbenzene	ND	100		µg/L	100	9/24/2003
Methyl tert-butyl ether (MTBE)	180	100		µg/L	100	9/24/2003
1,2,4-Trimethylbenzene	120	100		µg/L	100	9/24/2003
1,3,5-Trimethylbenzene	ND	100		µg/L	100	9/24/2003
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	9/24/2003
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	9/24/2003
Naphthalene	ND	200		µg/L	100	9/24/2003
1-Methylnaphthalene	ND	400		µg/L	100	9/24/2003
2-Methylnaphthalene	ND	400		µg/L	100	9/24/2003
Acetone	ND	1000		µg/L	100	9/24/2003
Bromobenzene	ND	100		µg/L	100	9/24/2003
Bromochloromethane	ND	100		µg/L	100	9/24/2003
Bromodichloromethane	ND	100		µg/L	100	9/24/2003
Bromoform	ND	100		µg/L	100	9/24/2003
Bromomethane	ND	200		µg/L	100	9/24/2003
2-Butanone	ND	1000		µg/L	100	9/24/2003
Carbon disulfide	ND	1000		µg/L	100	9/24/2003
Carbon Tetrachloride	ND	100		µg/L	100	9/24/2003
Chlorobenzene	ND	100		µg/L	100	9/24/2003
Chloroethane	ND	200		µg/L	100	9/24/2003
Chloroform	ND	100		µg/L	100	9/24/2003
Chloromethane	ND	100		µg/L	100	9/24/2003
2-Chlorotoluene	ND	100		µg/L	100	9/24/2003
4-Chlorotoluene	ND	100		µg/L	100	9/24/2003
cis-1,2-DCE	ND	100		µg/L	100	9/24/2003
cis-1,3-Dichloropropene	ND	100		µg/L	100	9/24/2003
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	9/24/2003
Dibromochloromethane	ND	100		µg/L	100	9/24/2003
Dibromomethane	ND	200		µg/L	100	9/24/2003
1,2-Dichlorobenzene	ND	100		µg/L	100	9/24/2003
1,3-Dichlorobenzene	ND	100		µg/L	100	9/24/2003
1,4-Dichlorobenzene	ND	100		µg/L	100	9/24/2003
Dichlorodifluoromethane	ND	100		µg/L	100	9/24/2003
1,1-Dichloroethane	ND	100		µg/L	100	9/24/2003
1,1-Dichloroethene	ND	100		µg/L	100	9/24/2003
1,2-Dichloropropane	ND	100		µg/L	100	9/24/2003
1,3-Dichloropropane	ND	100		µg/L	100	9/24/2003
2,2-Dichloropropane	ND	100		µg/L	100	9/24/2003
1,1-Dichloropropene	ND	100		µg/L	100	9/24/2003

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Page 5 of 8

OCT-01-2003(WED) 06:15

Hall Environmental Analysis Laboratory

Date: 30-Sep-03

CLIENT: Safety Kleen

Client Sample ID: SK Various

Lab Order: 0309166

Collection Date: 9/22/2003 1:00:00 PM

Project: Farm

Lab ID: 0309166-02

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	100		µg/L	100	9/24/2003
2-Hexanone	ND	1000		µg/L	100	9/24/2003
Isopropylbenzene	ND	100		µg/L	100	9/24/2003
4-Isopropyltoluene	ND	100		µg/L	100	9/24/2003
4-Methyl-2-pentanone	ND	1000		µg/L	100	9/24/2003
Methylene Chloride	ND	300		µg/L	100	9/24/2003
n-Butylbenzene	ND	100		µg/L	100	9/24/2003
n-Propylbenzene	ND	100		µg/L	100	9/24/2003
sec-Butylbenzene	ND	100		µg/L	100	9/24/2003
Styrene	ND	100		µg/L	100	9/24/2003
tert-Butylbenzene	ND	100		µg/L	100	9/24/2003
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	9/24/2003
1,1,2,2-Tetrachloroethane	ND	100		µg/L	100	9/24/2003
Tetrachloroethene (PCE)	ND	100		µg/L	100	9/24/2003
trans-1,2-DCE	ND	100		µg/L	100	9/24/2003
trans-1,3-Dichloropropene	ND	100		µg/L	100	9/24/2003
1,2,3-Trichlorobenzene	ND	100		µg/L	100	9/24/2003
1,2,4-Trichlorobenzene	ND	100		µg/L	100	9/24/2003
1,1,1-Trichloroethane	ND	100		µg/L	100	9/24/2003
1,1,2-Trichloroethane	ND	100		µg/L	100	9/24/2003
Trichloroethene (TCE)	ND	100		µg/L	100	9/24/2003
Trichlorofluoromethane	ND	100		µg/L	100	9/24/2003
1,2,3-Trichloropropane	ND	200		µg/L	100	9/24/2003
Vinyl chloride	ND	200		µg/L	100	9/24/2003
Xylenes, Total	530	100		µg/L	100	9/24/2003
Sum: 1,2-Dichloroethane-d4	108	70.6-124		%REC	100	9/24/2003
Sum: 4-Bromofluorobenzene	108	78.2-122		%REC	100	9/24/2003
Sum: Dibromofluoromethane	103	87.2-131		%REC	100	9/24/2003
Sum: Toluene-d8	105	82.1-123		%REC	100	9/24/2003

EPA METHOD 8270D: SEMIVOLATILES

Analyst: CS

Acenaphthene	ND	500		µg/L	5	9/29/2003
Acenaphthylene	ND	500		µg/L	5	9/29/2003
Aniline	ND	500		µg/L	5	9/29/2003
Anthracene	ND	500		µg/L	5	9/29/2003
Azobenzene	ND	500		µg/L	5	9/29/2003
Benz(a)anthracene	ND	500		µg/L	5	9/29/2003
Benzdine	ND	1000		µg/L	5	9/29/2003
Benzo(a)pyrene	ND	500		µg/L	5	9/29/2003
Benzo(b)fluoranthene	ND	500		µg/L	5	9/29/2003
Benzo(g,h,i)perylene	ND	500		µg/L	5	9/29/2003
Benzo(k)fluoranthene	ND	500		µg/L	5	9/29/2003
Benzoic acid	ND	2500		µg/L	5	9/29/2003

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Page 6 of 8

OCT-01-2003(WED) 06:15

Hall Environmental Analysis Laboratory

Date: 30-Sep-03

CLIENT: Safety Kleen
Lab Order: 0309166
Project: Farm
Lab ID: 0309166-02

Client Sample ID: SK Various
Collection Date: 9/22/2003 1:00:00 PM

Matrix: AQUEOUS

Analytes	Result	Limit	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	1000		µg/L	5	9/29/2003
Bis(2-chloroethoxy)methane	ND	500		µg/L	5	9/29/2003
Bis(2-chloroethyl)ether	ND	500		µg/L	5	9/29/2003
Bis(2-chloroisopropyl)ether	ND	500		µg/L	5	9/29/2003
Bis(2-ethylhexyl)phthalate	ND	500		µg/L	5	9/29/2003
4-Bromophenyl phenyl ether	ND	500		µg/L	5	9/29/2003
Butyl benzyl phthalate	ND	500		µg/L	5	9/29/2003
Carbazole	ND	500		µg/L	5	9/29/2003
4-Chloro-3-methylphenol	ND	1000		µg/L	5	9/29/2003
4-Chloroaniline	ND	1000		µg/L	5	9/29/2003
2-Chloronaphthalene	ND	500		µg/L	5	9/29/2003
2-Chlorophenol	ND	500		µg/L	5	9/29/2003
4-Chlorophenyl phenyl ether	ND	500		µg/L	5	9/29/2003
Chrysene	ND	500		µg/L	5	9/29/2003
Di-n-butyl phthalate	ND	500		µg/L	5	9/29/2003
Di-n-octyl phthalate	ND	500		µg/L	5	9/29/2003
Dibenz(a,h)anthracene	ND	500		µg/L	5	9/29/2003
Dibenzofuran	ND	500		µg/L	5	9/29/2003
1,2-Dichlorobenzene	ND	500		µg/L	5	9/29/2003
1,3-Dichlorobenzene	ND	500		µg/L	5	9/29/2003
1,4-Dichlorobenzene	ND	500		µg/L	5	9/29/2003
3,3'-Dichlorobenzidine	ND	500		µg/L	5	9/29/2003
Dioctyl phthalate	ND	500		µg/L	5	9/29/2003
Dimethyl phthalate	ND	500		µg/L	5	9/29/2003
2,4-Dichlorophenol	ND	500		µg/L	5	9/29/2003
2,4-Dimethylphenol	ND	500		µg/L	5	9/29/2003
4,6-Dinitro-2-methylphenol	ND	2500		µg/L	5	9/29/2003
2,4-Dinitrophenol	ND	2500		µg/L	5	9/29/2003
2,4-Dinitrotoluene	ND	500		µg/L	5	9/29/2003
2,6-Dinitrotoluene	ND	500		µg/L	5	9/29/2003
Fluoranthene	ND	500		µg/L	5	9/29/2003
Fluorone	ND	500		µg/L	5	9/29/2003
Hexachlorobenzene	ND	500		µg/L	5	9/29/2003
Hexachlorobutadiene	ND	500		µg/L	5	9/29/2003
Hexachlorocyclopentadiene	ND	500		µg/L	5	9/29/2003
Hexachloroethane	ND	500		µg/L	5	9/29/2003
Indeno(1,2,3-cd)pyrene	ND	500		µg/L	5	9/29/2003
Isophorone	ND	500		µg/L	5	9/29/2003
2-Methylnaphthalene	830	500		µg/L	5	9/29/2003
2-Methylphenol	ND	500		µg/L	5	9/29/2003
3+4-Methylphenol	ND	500		µg/L	5	9/29/2003
N-Nitrosodi-n-propylamine	ND	500		µg/L	5	9/29/2003

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

Page 7 of 8

OCT-01-2003(WED) 06:15

P.012/014

Hall Environmental Analysis Laboratory

Date: 30-Sep-03

CLIENT: Safety Kleen

Client Sample ID: SK Various

Lab Order: 0309166

Collection Date: 9/22/2003 1:00:00 PM

Project: Farm

Matrix: AQUEOUS

Lab ID: 0309166-02

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
N-Nitrosodiphenylamine	ND	500		µg/L	5	9/29/2003
Naphthalene	ND	500		µg/L	5	9/29/2003
2-Nitroaniline	ND	2500		µg/L	5	9/29/2003
3-Nitroaniline	ND	2500		µg/L	5	9/29/2003
4-Nitroaniline	ND	1000		µg/L	5	9/29/2003
Nitrobenzene	ND	500		µg/L	5	9/29/2003
2-Nitrophenol	ND	500		µg/L	5	9/29/2003
4-Nitrophenol	ND	2500		µg/L	5	9/29/2003
Pentachlorophenol	ND	2500		µg/L	5	9/29/2003
Phenanthrene	ND	500		µg/L	5	9/29/2003
Phenol	690	500		µg/L	5	9/29/2003
Pyrene	ND	500		µg/L	5	9/29/2003
Pyridine	ND	500		µg/L	5	9/29/2003
1,2,4-Trichlorobenzene	ND	500		µg/L	5	9/29/2003
2,4,5-Trichlorophenol	ND	500		µg/L	5	9/29/2003
2,4,6-Trichlorophenol	ND	500		µg/L	5	9/29/2003
Sum: 2,4,6-Tribromophenol	109	18.6-115		%REC	5	9/29/2003
Sum: 2-Fluorobiphenyl	91.8	37-95.7		%REC	5	9/29/2003
Sum: 2-Fluorophenol	70.8	9.54-99.8		%REC	5	9/29/2003
Sum: 4-Terphenyl-d14	67.4	47.9-115		%REC	5	9/29/2003
Sum: Nitrobenzene-d5	101	38-106		%REC	5	9/29/2003
Sum: Phenol-d6	49.1	10.7-63.4		%REC	5	9/29/2003

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Page 8 of 8

DCT-01-2003(WED) 00:15

TX DATE/TIME

DCT-29-2003(MUN) 11:27

400 202 0000

09/29/2003 12:40 FAX 408 252 6069

ENERGY LABS.



ENERGY LABORATORIES, INC. • P.O. Box 30816 • 1120 South 27th Street • Billings, MT 59107-0816
800-735-4489 • 406-252-6325 • 406-252-6069 fax • efl@energylab.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental-Albuquerque

Project: FARM

Lab ID: B03091222-002

Client Sample ID: SK Various, 0309166-02C

Report Date: 09/29/03

Collection Date: 09/22/03 13:00

Date Received: 09/24/03

Matrix: Aqueous

Analytes	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
METALS, TOTAL							
Arsenic	0.025	mg/L		0.005		E200.8	09/23/03 12:28 / car
Barium	0.1	mg/L		0.1		E200.8	09/25/03 12:28 / car
Cadmium	0.002	mg/L		0.001		E200.8	09/25/03 12:28 / car
Chromium	0.25	mg/L		0.01		E200.8	09/25/03 12:28 / car
Lead	0.01	mg/L		0.01		E200.8	09/25/03 12:28 / car
Mercury	0.018	mg/L	D	0.005		E245.1	09/28/03 14:50 / ch
Selenium	ND	mg/L		0.005		E200.8	09/25/03 12:28 / car
Silver	ND	mg/L		0.005		E200.8	09/25/03 12:28 / car

Report
Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

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. **OIL CONSERVATION**
Santa Fe, NM 87505 **DIVISION**

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NOV 13 2003

Form C-138
Revised June 10, 2003

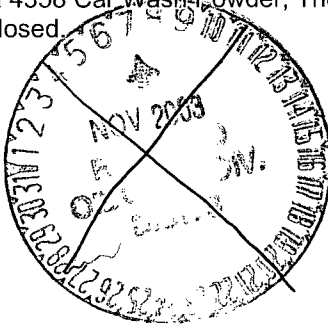
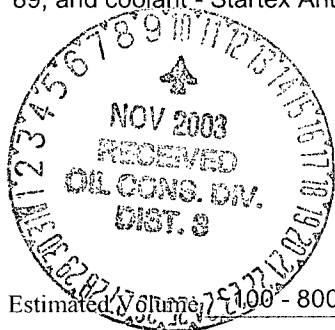
Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☐	4. Generator Duke Energy Field Services, LP
2. Management Facility Destination Key Energy Disposal	5. Originating Site See attached list
3. Address of Facility Operator #345 CR 3500, Aztec, NM	6. Transporter Key Energy
7. Location of Material (Street Address or ULSTR) See attached list	8. State NM
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

RCRA non-exempt, non-hazardous storm water and wastewater (soap/water mixture with incidental amounts of coolant, triethylene glycol, and lubricating oil from equipment skids) generated from wash down activities at facilities (see attached list). A representative sample was collected for analysis from the Pump Canyon Compressor Station. Analytical results and Material Safety Data Sheets (soap - Zep Formula 4358 Car Wash Powder, Triethylene glycol, Lubricating Oil - Mobil Pegasus 89, and coolant - Startex Antifreeze Coolant) enclosed.



Estimated Volume 100 - 800 bbl/yr cy

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

SIGNATURE

Michael Talovich
Waste Management Facility Authorized Agent

TITLE:

MR

DATE:

11-10-03

TYPE OR PRINT NAME:

MICHAEL TALOVICH

TELEPHONE NO.

505-334-6416

E-MAIL ADDRESS

MTALOVICH@VEYENERGY.COM

(This space for State Use)

APPROVED BY:

Denny J. Fout

TITLE:

Environmental

DATE:

11/10/03

APPROVED BY:

Monty G. Galt

TITLE:

Environmental Geologist

DATE:

11/14/03

111403-1

Originating Sites	Location
Arch Rock Compressor Station	SW/4 Section 14 Township 31N Range 10W
Buena Vista Compressor Station	NE/4 Section 13 Township 30N Range 9W
Cedar Hill CDP	SW/4 Section 29 Township 32N Range 10 W
Cedar Hill Compressor Station	SW/4 Section 29 Township 32N Range 10W
Frances Creek CDP	NE/4 Section 4 Township 29N Range 6W
Frances Mesa Compressor Station	SW/4 Section 27 Township 30N Range 7W
Frances Mesa Junction	Section 21 Township 20N Range 7W
Gobernador Compressor Station	Section 31 Township 30N Range 7W
Hart Canyon Compressor Station	Section 20 Township 31N Range 10W
Johnson Federal Drip	Section 35 Township 31N Range 9W
Manzanares Compressor Station	Section 4 Township 29N Range 8W
Middle Mesa Compressor Station	Section 10 Township 31N Range 7W
Pump Canyon Compressor Station	Section 24 Township 30N Range 9W
Pump Canyon Unicon CDP	Section 13 Township 30N Range 9W
Pump Mesa Compressor Station	Section 14 Township 31N Range 8W
Quinn Compressor Station	Section 17 Township 31N Range 8W
Sandstone Compressor Station	Section 32 Township 31N Range 8W
Sims Mesa Compressor Station	Section 22 Township 30N Range 7W
Trk MB20-MB16 Loop	Section 11 Township 29 N Range 11W
Trk MB22 Loop	Section 12 Township 29 N Range 11W



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Duke Energy Field Services, LP 119 CR 4900 Bloomfield, NM 87413	2. Destination Name: Key Energy Services Sunco WDW #1 Injection Well
3. Originating Site (name): See attached list attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): See attached list
4. Source and Description of Waste RCRA non-exempt, non-hazardous storm water and wastewater (soap/water mixture with incidental amounts of coolant, triethylene glycol, and lubricating oil from equipment skids) generated from wash down activities at facilities (see attached list). A representative sample was collected for analysis from the Pump Canyon Compressor Station. Analytical results attached.	

I, Michael LEE representative for :
Print Name

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

☐ EXEMPT oilfield waste

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

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

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

☒ MSDS Information (soap, coolant, triethylene glycol)

☐ Other (description)

☒ RCRA Hazardous Waste Analysis

☒ Chain of Custody

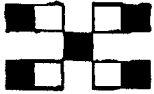
This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]

Title: Field Supervisor

Date: 10/31/03

OCT-01-2003(WED) 06:14



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel: 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

CHAIN-OF-CUSTODY RECORD

Accreditation Applied:

USACE ☐ **NEIAC** ☐

Deher:

Project Name:

3103

Project #:

Signature

Project Manager:

Mike Crawford

Sampler:

Sample Temperature

00

Index

अनुषंग

Abstract

Sample I.D. No.

Number/Volume

WEAL No.

22503

33

21

5195

1-75L

1-11028

10261023

32

4

75

1-12

2

Date:

Index

Reframed by: Signature

Remarks:

Date:

1000

Relinquished By: (Signature)

Remarks:

ANALYSIS REQUEST

BTEX + MTBE + TMB's (6021)
 BTEX + MTBE + TPH (Gasoline O.
 TPH Method 8015B MOD (Gas/Oil)
 TPH Method 418.1)
 EDB (Method 504.1)
 EDC (Method 8021)
 B310 (PMA or PAH)
 PCRA 8 Metals
 Cadons (Na, K, Ca, Mg)
 Anions (F, Cl, NO₂, NO₃, PO₄, SO₄)
 8081 Pesticides / PCB's (8082)
 8280 (VOA)
 8270 (Semi-VOA)
 Sec 134
 Air Bubbles or Headspace (V or N)

Remarks: Result ASAP

RECEIVED

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

NOV 13 2003

Form C-138
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr. **OIL CONSERVATION**
Santa Fe, NM 87505 **DIVISION**

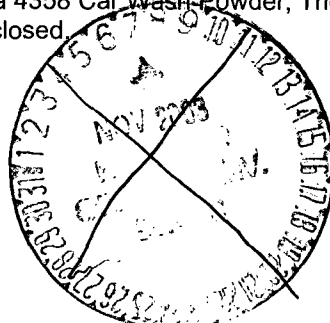
Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☐	4. Generator Duke Energy Field Services, LP
	5. Originating Site See attached list
2. Management Facility Destination Key Energy Disposal	6. Transporter Key Energy
3. Address of Facility Operator #345 CR 3500, Aztec, NM	8. State NM
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.	

BRIEF DESCRIPTION OF MATERIAL:

RCRA non-exempt, non-hazardous storm water and wastewater (soap/water mixture with incidental amounts of coolant, triethylene glycol, and lubricating oil from equipment skids) generated from wash down activities at facilities (see attached list). A representative sample was collected for analysis from the Pump Canyon Compressor Station. Analytical results and Material Safety Data Sheets (soap - Zep Formula 4358 Car Wash Powder, Triethylene glycol, Lubricating Oil - Mobil Pegasus 89, and coolant - Startex Antifreeze Coolant) enclosed.



Estimated Volume 100 - 800 bbl/yr cy

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

SIGNATURE Michael Talovich
Waste Management Facility Authorized Agent

TITLE: MMOLDATE: 11-10-03TYPE OR PRINT NAME: MICHAEL TALOVICHTELEPHONE NO. 505-334-6416E-MAIL ADDRESS MTALOVICH@VeyEnergy.com

111403-1

(This space for State Use)

APPROVED BY: Lenny G. FaustTITLE: EnvironmentalDATE: 11/10/03APPROVED BY: Monty G. GaltTITLE: Environmental GeologistDATE: 11/14/03

Originating Sites	Location
Arch Rock Compressor Station	SW/4 Section 14 Township 31N Range 10W
Buena Vista Compressor Station	NE/4 Section 13 Township 30N Range 9W
Cedar Hill CDP	SW/4 Section 29 Township 32N Range 10 W
Cedar Hill Compressor Station	SW/4 Section 29 Township 32N Range 10W
Frances Creek CDP	NE/4 Section 4 Township 29N Range 6W
Frances Mesa Compressor Station	SW/4 Section 27 Township 30N Range 7W
Frances Mesa Junction	Section 21 Township 20N Range 7W
Gobernador Compressor Station	Section 31 Township 30N Range 7W
Hart Canyon Compressor Station	Section 20 Township 31N Range 10W
Johnson Federal Drip	Section 35 Township 31N Range 9W
Manzanares Compressor Station	Section 4 Township 29N Range 8W
Middle Mesa Compressor Station	Section 10 Township 31N Range 7W
Pump Canyon Compressor Station	Section 24 Township 30N Range 9W
Pump Canyon Unicon CDP	Section 13 Township 30N Range 9W
Pump Mesa Compressor Station	Section 14 Township 31N Range 8W
Quinn Compressor Station	Section 17 Township 31N Range 8W
Sandstone Compressor Station	Section 32 Township 31N Range 8W
Sims Mesa Compressor Station	Section 22 Township 30N Range 7W
Trk MB20-MB16 Loop	Section 11 Township 29 N Range 11W
Trk MB22 Loop	Section 12 Township 29 N Range 11W



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Duke Energy Field Services, LP 119 CR 4900 Bloomfield, NM 87413	2. Destination Name: Key Energy Services Sunco WDW #1 Injection Well
3. Originating Site (name): See attached list attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): See attached list
4. Source and Description of Waste RCRA non-exempt, non-hazardous storm water and wastewater (soap/water mixture with incidental amounts of coolant, triethylene glycol, and lubricating oil from equipment skids) generated from wash down activities at facilities (see attached list). A representative sample was collected for analysis from the Pump Canyon Compressor Station. Analytical results attached.	

I, Michael LEE representative for :
Print Name

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

☐ EXEMPT oilfield waste

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

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

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

☒ MSDS Information (soap, coolant, triethylene glycol)

☐ Other (description)

☒ RCRA Hazardous Waste Analysis

☒ Chain of Custody

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

Name (Original Signature): [Signature]

Title: Field Supervisor

Date: 10/31/03

Originating Sites	Location
Arch Rock Compressor Station	SW/4 Section 14 Township 31N Range 10W
Buena Vista Compressor Station	NE/4 Section 13 Township 30N Range 9W
Cedar Hill CDP	SW/4 Section 29 Township 32N Range 10 W
Cedar Hill Compressor Station	SW/4 Section 29 Township 32N Range 10W
Frances Creek CDP	NE/4 Section 4 Township 29N Range 6W
Frances Mesa Compressor Station	SW/4 Section 27 Township 30N Range 7W
Frances Mesa Junction	Section 21 Township 20N Range 7W
Gobernador Compressor Station	Section 31 Township 30N Range 7W
Hart Canyon Compressor Station	Section 20 Township 31N Range 10W
Johnson Federal Drip	Section 35 Township 31N Range 9W
Manzanares Compressor Station	Section 4 Township 29N Range 8W
Middle Mesa Compressor Station	Section 10 Township 31N Range 7W
Pump Canyon Compressor Station	Section 24 Township 30N Range 9W
Pump Canyon Unicon CDP	Section 13 Township 30N Range 9W
Pump Mesa Compressor Station	Section 14 Township 31N Range 8W
Quinn Compressor Station	Section 17 Township 31N Range 8W
Sandstone Compressor Station	Section 32 Township 31N Range 8W
Sims Mesa Compressor Station	Section 22 Township 30N Range 7W
Trk MB20-MB16 Loop	Section 11 Township 29 N Range 11W
Trk MB22 Loop	Section 12 Township 29 N Range 11W

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

November 04, 2003

Robert Thompson
Terracon
#4A CR 3499
Flora Vista, NM 87415

TEL: (505) 334-2900
FAX (505) 334-9703

RE: Pump Canyon Compressor Station

Order No.: 0310056

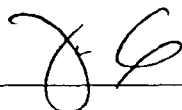
Dear Robert Thompson:

iiná bá, Ltd. received 2 samples on 10/30/2003 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: _____



David Cox
Laboratory Manager

Heidi Reese
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

iiná bá, Ltd.

Date: 04-Nov-03

CLIENT: Tetracon
Project: Pump Canyon Compressor Station
Lab Order: 0310056

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 04-Nov-03

CLIENT: Terracon	Client Sample Info: Terracon
Work Order: 0310056	Client Sample ID: Compressor Station
Project: Pump Canyon Compressor Station	Collection Date: 10/30/2003 3:15:00 PM
Lab ID: 0310056-001B	Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP LEACHED		SW7470		Analyst: DWC		
Mercury	ND	0.0010		mg/L	1	11/3/2003
ICP METALS, TCLP LEACHED		SW1311/6010B		Analyst: DWC		
Arsenic	ND	0.018		mg/L	1	11/3/2003
Barium	ND	0.003		mg/L	1	11/3/2003
Cadmium	ND	0.003		mg/L	1	11/3/2003
Chromium	0.024	0.003		mg/L	1	11/3/2003
Lead	ND	0.005		mg/L	1	11/3/2003
Selenium	0.024	0.011		mg/L	1	11/3/2003
Silver	ND	0.020		mg/L	1	11/3/2003

Qualifiers:	ND - Not Detected at the Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	R - RPD outside accepted precision limits
	B - Analyte detected in the associated Method Blank	E - Value above Upper Quantitation Limit - UQL
	H - Parameter exceeded Maximum Allowable Holding Time	

Page 1 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iina bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 04-Nov-03

CLIENT: Terracon
Work Order: 0310056
Project: Pump Canyon Compressor Station
Lab ID: 0310056-001C

Client Sample Info: Terracon
Client Sample ID: Compressor Station
Collection Date: 10/30/2003 3:15:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
PH		E150.1				Analyst: HNR
pH	6.24	2.00		pH units	1	10/31/2003
Temperature	16.0	0		deg C	1	10/31/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

I - Analyte detected below Practical Quantitation Limit

R - RPD outside accepted precision limits

B - Analyte detected in the associated Method Blank

E - Value above Upper Quantitation Limit - UQL

H - Parameter exceeded Maximum Allowable Holding Time

Page 2 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

TestAmerica

ANALYTICAL TESTING CORPORATION

2960 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204
800-765-0980 • 615-726-3404 FAX

11/ 4/03

CASE NARRATIVE

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name:
Project Number: .
Laboratory Project Number: 352489.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Page 1

Sample Identification	Lab Number	Collection Date
0310056-001D	03-A170781	10/30/03

TestAmerica

ANALYTICAL TESTING CORPORATION

2960 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204
800-765-0980 • 615-726-3404 FAX

Page 2

Sample Identification	Lab Number	Collection Date
-----	-----	-----

These results relate only to the items tested.

This report shall not be reproduced except in full and with
permission of the laboratory.

Report Approved By: Roxanne L. Connor Report Date: 11/ 4/03

Ashley Morris, Lab Director	Gail A. Lage, Technical Serv.
Michael H. Dunn, M.S., QA/QC Director	Glenn L. Norton, Technical Serv.
Johnny A. Mitchell, Operations Manager Organics	Kelly S. Comstock, Technical Serv.
Eric S. Smith, Assistant Technical Director	Pamela A. Langford, Technical Serv.
Roxanne L. Connor, Technical Services	

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.



2960 FOSTER CREECHTON DRIVE • NASHVILLE, TENNESSEE 37204
800-765-0980 • 615-726-3404 FAX

ANALYTICAL REPORT

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 03-A170781
Sample ID: 0310056-001D
Sample Type: Liquid waste
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 10/30/03
Time Collected: 15:15
Date Received: 10/31/03
Time Received: 8:10
Page: 1

Pump Canyon Compressor Station

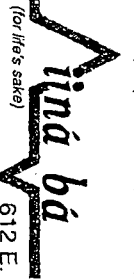
11/5/03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
Ignitability	NOT IGNITABLE UP TO 200F					11/ 3/03	10:33	T. Beverly	1010M	7527
Flash Point, Closed Cup	NO FLASH UP TO 200F					11/ 3/03	10:33	T. Beverly	1010	7527

TCLP Results

Analyte	Result	Units	Matrix Spike		Date	Time	Analyst	Method	QC Batch
			Reg Limit	Recovery (%)					
Benzene	< 0.0200	mg/l	0.5	108	11/ 4/03	12:05	C. Spry	8260	9314
Carbon tetrachloride	< 0.0200	mg/l	0.5	85	11/ 4/03	12:05	C. Spry	8260	9314
Chlorobenzene	< 0.0200	mg/l	100	105	11/ 4/03	12:05	C. Spry	8260	9314
Chloroform	< 0.0200	mg/l	5.0	105	11/ 4/03	12:05	C. Spry	8260	9314
1,2-Dichloroethane	< 0.0200	mg/l	0.5	99	11/ 4/03	12:05	C. Spry	8260	9314
1,1-Dichloroethene	< 0.0200	mg/l	0.7	100	11/ 4/03	12:05	C. Spry	8260	9314
Methylethylketone	< 0.100	mg/l	200	105	11/ 4/03	12:05	C. Spry	8260	9314
Tetrachloroethene	< 0.0200	mg/l	0.7	104	11/ 4/03	12:05	C. Spry	8260	9314
Trichloroethene	0.230	mg/l	0.5	106	11/ 4/03	12:05	C. Spry	8260	9314
Vinyl Chloride	< 0.0200	mg/l	0.2	99	11/ 4/03	12:05	C. Spry	8260	9314
Zero Headspace Extraction	Initiated				10/31/03	15:00	B. Minor	1311	6263

Sample report continued . . .



612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
Phone: (505) 327-1072 • Fax: (505) 327-1496

CHAIN OF CUSTODY RECORD

3663

Date 10-30-03

Page 1 of 1

REPORT RESULTS TO:

Report to:	ROBERT THOMPSON		
Company:	TEERACON		
Address:	#49 CR 3499		
City:	FLORA VISTA, NM 87415		
Phone:	334-2900	Fax:	334-9703
Turnaround Time:	10 days (normal) ☒ 24-48 hours (100%) ☐ 3-5 days (50%) ☐	Sample Integrity	Intact ☒ Subcontract Yes ☒ No ☐

Email: rsthompson@teeracn.com

SEND INVOICE TO:

PO No.:	Job No.:
Name:	ROBERT THOMPSON
Company:	TEERACON
Address:	#49 CR 3499
City:	FLORA VISTA, NM 87415

Sampling Location:
Pump Canyon Compressor Station

Sample Identification

Sample Identification	Sample		Matrix	Pres.
	Date	Time		
Pump Canyon Compressor Station	10-30	1515	H ₂ O	H ₂ O
TEEP BLANK	10-30	1330	H ₂ O	Ac1

NUMBER OF CONTAINERS:

Analysis Requested				Lab ID
PH	FLASH POINT	TCLP VOLATILES	TCLP METALS	
X	X	X	X	0310254-001
				1-00254

Relinquished by:	Date/Time:	Received by:	Date/Time:
<i>[Signature]</i>	10-30-03/1630	<i>[Signature]</i>	10/30/03 11:30
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Comments: 303-605-1717 (Office) 720-635-9460 (Cell) 303-605-1957 (Fax) COPIES KAREN KIMURA

ZEP MANUFACTURING COMPANY

07/19/01
PAGE 1ISSUE DATE: 05/21/99 ZEP FORMULA 4358
SUPERSEDES: 06/15/88 PRODUCT NUMBER: 0407
Car Wash - Powder

SECTION I - EMERGENCY CONTACTS

MEDICAL EMERGENCY: TOLL FREE 1-877-541-2016 ALL CALLS RECORDED

TRANSPORTATION EMERGENCY: CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
** NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ** npe; poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega- hydroxy; CAS# 9016-45-9; RTECS# MD0905000; OSHA PEL- N/D	N/D	EIR	10-20

SECTION III - HEALTH HAZARD DATA

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

ACUTE EFFECTS OF OVEREXPOSURE:

Dust from this product may be irritating to skin and eyes. Irritation of skin is characterized by itching or reddening of the skin. Eye irritation is characterized by watering, itching and redness. Inhalation of dust may produce respiratory irritation characterized by coughing or a choking sensation.

CHRONIC EFFECTS OF OVEREXPOSURE:

There are no known effects from chronic exposure to this product. None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

EST'D PEL/TLV: Not established PRIMARY ROUTES OF ENTRY: N/A

HMIS CODES: HEALTH 1; FLAM. 0; REACT. 0; PERS. PROTECT. A ; CHRONIC HAZ. NO

FIRST AID PROCEDURES:

SKIN : Flush contaminated skin with plenty of water. Consult a physician if irritation develops.

EYES : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops, consult a physician.

INHALE: If symptoms occur, move affected person to fresh air. If symptoms persist, get medical attention promptly.

INGEST: If this product is swallowed, do not induce vomiting. If individual is alert, give plenty of water to drink. Get medical attention at once.

PAGE 2

ISSUE DATE: 05/21/99 ZEP FORMULA 4358
SUPERSEDES: 06/15/88 PRODUCT NUMBER: 0407
Car Wash - Powder

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING : As with all chemical products, prolonged skin contact should be avoided. Implement protective measures under
EYE PROTECTION : As with all chemical products, eye contact should be avoided. Implement protective measures based on con-
RESPIRATORY PROTECTION: No special measures are required.
VENTILATION : No special measures are required.

SECTION V - PHYSICAL DATA

BOILING POINT (F) : N/A SPECIFIC GRAVITY :
VAPOR PRESSURE(MMHG): N/A EVAPORATION RATE(N/A =1): N/A
VAPOR DENSITY(AIR=1): N/A PH(CONCENTRATE) : N/A
SOLUBILITY IN WATER : 1.0 #/gal. PH(USE DILUTION OF 0.25): 9.3
VOC CONTENT (CONCENTRATE) N/A
APPEARANCE AND ODOR : A RED, FREE-FLOWING, PLEASANTLY SCENTED POWDER.

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT(F) (METHOD USED): N/A ()
FLAMMABLE LIMITS LEL N/A UEL N/A
EXTINGUISHING MEDIA : Noncombustible.
SPECIAL FIRE FIGHTING: Wear self-contained positive pres. breathing apparatus.
UNUSUAL FIRE HAZARDS : May decompose to form toxic/corrosive gases.

SECTION VII - REACTIVITY DATA

STABILITY : Stable
INCOMPATIBILITY(AVOID) : Strong oxidizing agents.
POLYMERIZATION : Will not occur.
HAZARDOUS DECOMPOSITION: Carbon dioxide, carbon monoxide and toxic/corrosive fumes as oxides of phosphorous.

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Observe safety precautions in sections 4 & 9 during clean-up. Sweep up uncontaminated product and place in a container for reuse. Place contaminated materials in a suitable waste container and rinse area well with water.

WASTE DISPOSAL METHOD:

Product is not considered a hazardous waste under RCRA. Unusable material should be drummed and taken to a chemical or industrial landfill, or if permitted put into solution with water and flushed into a sanitary sewer. Neutralization of pH may be a prerequisite for sewer disposal. Consult local, state, and federal agencies for proper method of disposal in your area.

RCRA HAZ. WASTE NOS.: N/A

PAGE 3

ISSUE DATE: 05/21/99 ZEP FORMULA 4358
SUPERSEDES: 06/15/88 PRODUCT NUMBER: 0407
Car Wash - Powder

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

Store tightly closed container in a dry area at temps. between 40-120 degrees F.
Do not breathe dust.
Keep product out of eyes.
Keep out of the reach of children.

SECTION X - REGULATORY INFORMATION

DOT PROPER SHIP NAME: NONE

NOTE: DOT information applies to larger package sizes of affected products.

For some products, DOT may require alternate names and labeling in
accordance with packaging group requirements.

DOT HAZARD CLASS: N/A

DOT PACKING GROUP: N/A

DOT I.D. NUMBER : N/A DOT LABEL/PLACARD: NONE

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): NONE

NOTICE

Thank you for your interest in, and use of, Zep products. Zep Manufacturing Co. is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "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, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS - LISTED ALPHABETICALLY BY SECTION

SECTION II: HAZARDOUS INGREDIENTS

CAR: Carcinogen - A chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.

CAS #: Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.

CBL: Combustible - At temperatures between 100F and 200F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

CNS: Central Nervous System depressant which reduces the activity of the brain and spinal cord.

COR: Corrosive - Causes irreversible injury to living tissue (e.g. burns).

DESIGNATIONS: Chemical and common names of hazardous ingredients.

EIR: Eye Irritant Only - Causes reversible reddening and/or inflammation of eye tissues.

EXPOSURE LIMITS: The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects.

Primary sources include ACGIH TLVs, and OSHA PELs (TWA, STEL and ceiling limits).

ACGIH: American Conference of Governmental Industrial Hygienists.

CEILING: The concentration that should not be exceeded in the workplace during any part of the working exposure.

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit - A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

PPM: Parts per million - unit of measure for exposure limits.

(S) SKIN: Skin contact with substance can contribute to overall exposure.

STEL: Short Term Exposure Limit - Maximum concentration for a continuous 15-minute exposure period.

TLV: Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week.

FBL: Flammable - At temperatures under 100F, chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS: Chemical substances determined to be potential health or physical hazards based on the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX: Highly toxic - the probable lethal dose for a 70kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 tablespoons).

IRR: Irritant - Causes reversible effects in living tissues (e.g. inflammation) - primarily skin and eyes.

N/A: Not Applicable - Category is not appropriate for this product.

N/D: Not Determined - Insufficient information to make a determination for this item.

RTECS†: Registry of Toxic Effects of Chemical Substances - an unreviewed listing of published toxicology data on chemical substances.

SARA: Superfund Amendment and Reauthorization Act - Section

313 designates chemicals for possible reporting for the Toxics Release Inventory.

SEN: Sensitizer - Causes allergic reaction after repeated exposure.

TOX: Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

SECTION III: HEALTH HAZARD DATA

ACUTE EFFECT: An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.

CHRONIC EFFECT: Adverse effects that are most likely to occur from repeated exposure over a long period of time.

EST D PEL/TLV: This estimated, time-weighted average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.

HMIS CODES: Hazardous Material Identification System - a rating system developed by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. The presence of a chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment.

PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.

ING: Ingestion - A primary route of exposure through swallowing of material

INH: Inhalation - A primary route of exposure through breathing of vapors.

SKIN: A primary route of exposure through contact with the skin.

SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks.

MSHA: Mine Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health

SECTION V: PHYSICAL DATA

EVAPORATION RATE: Refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water).

pH: A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline pH = 14)

VOC CONTENT: The percentage or amount in pounds per gallon of the product that is regulated as a Volatile Organic Compound under the Clean Air Act of 1990 and

various state jurisdictions.

SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: Breakdown products expected to be produced upon product decomposition by extreme heat or fire.

INCOMPATIBILITY: Material contact by extreme heat and the conditions to avoid to prevent hazardous reactions.

POLYMERIZATION: Indicates the tendency of the product's molecules to combine with themselves in a chemical reaction, releasing excess pressure and heat.

STABILITY: Indicates the susceptibility of the product to spontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES

RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

SECTION X: TRANSPORTATION DATA

CWA: Clean Water Act- Federal Law which regulates chemical releases to bodies of water.

RQ: Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies.

TSCA: Toxic Substances Control Act - a federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the products label and Material Safety Data Sheet.

(rev. 1/98)

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	Triethylene Glycol	Code	7970
Supplier	Coastal Chemical Co., L.L.C. 3520 Veterans Memorial Drive Abbeville, La. 70510 337-893-3862	MSDS#	Not available.
Synonym	Not available.	Validation Date	4/8/2002
Trade name	Not available.	Print Date	4/8/2002
Material Uses	Not available.	Responsible Name	Charles Toups
Manufacturer	Coastal Chemical Co., L.L.C. 3520 Veterans Memorial Drive Abbeville, La. 70510 337-893-3862	In Case of Emergency	Transportation Emergency Call CHEMTREC 800-424-9300 Other Information Call Charles Toups 337-898-0001

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Diethylene glycol	111-46-6	0-5	Not available
2) Triethylene Glycol	112--27-6	95-100	

Section 3. Hazards Identification

Physical State and Appearance	Liquid.
Emergency Overview	WARNING! CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LIVER.
Routes of Entry	Not available.
Potential Acute Health Effects	Eyes Not available.
	Skin Irritation of the product in case of skin contact: Not available. Sensitization of the product: Not available. Slightly hazardous in case of skin contact (permeator).
	Inhalation Slightly hazardous in case of inhalation.
	Ingestion Slightly hazardous in case of ingestion.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
Medical Conditions Aggravated by Overexposure:	Repeated or prolonged exposure is not known to aggravate medical condition.
Overexposure Signs/Symptoms	Not available
See Toxicological Information (section 11)	

Continued on Next Page

Triethylene Glycol

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Auto-ignition Temperature	The lowest known value is 227.78°C (442°F) (Diethylene glycol).
Flash Points	The lowest known value is CLOSED CUP: 138°C (280.4°F). OPEN CUP: 143°C (289.4°F). (Cleveland). (Diethylene glycol)
Flammable Limits	The greatest known range is LOWER: 2% UPPER: 12.3% (Diethylene glycol)
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	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.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	When heated to decomposition, it emits acrid smoke and irritating fumes. (Diethylene glycol)
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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Triethylene Glycol

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Section 7. Handling and Storage

Handling	Avoid breathing vapors or spray mists.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Safety glasses.

Body Lab coat.

Respiratory Not applicable.

Hands Gloves (impervious).

Feet Not applicable.

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name**Exposure Limits**

- 1) 2,2'-Oxydiethanol
- 2) Triethylene Glycol

Not available.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Not available.
pH (1% Soln/Water)	Neutral.		
Boiling/Condensation Point	The lowest known value is 245.8°C (474.4°F) (Diethylene glycol). Weighted average: 284.02°C (543.2°F)		
Melting/Freezing Point	May start to solidify at -5°C (23°F) based on data for: Triethylene Glycol. Weighted average: -5.09°C (22.8°F)		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 1.12 (Water = 1)		
Vapor Pressure	The highest known value is 0 kPa (@ 20°C) (Diethylene glycol).		
Vapor Density	The highest known value is 6.7 (Air = 1) (Tetraethylene glycol). Weighted average: 5.15 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation Rate	Not available.		
VOC	Not available.		

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Triethylene Glycol

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Viscosity	Not available.
LogK _{ow}	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water, methanol, diethyl ether.
Solubility	Easily soluble in hot water, methanol, diethyl ether. Soluble in cold water.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Not available.

Section 11. Toxicological Information

Toxicity to Animals	Acute oral toxicity (LD50): 12565 mg/kg [Hamster]. (Diethylene glycol). Acute dermal toxicity (LD50): 11890 mg/kg [Hamster]. (Diethylene glycol).
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Experimentally tumorigen by inhalation. Exposure can cause nausea, headache and vomiting. (Diethylene glycol)

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available. These products are carbon oxides (CO, CO2) and water.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

Continued on Next Page

Triethylene Glycol

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Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

Shipping Description	Not a DOT controlled material (United States).
	Not regulated.
Reportable Quantity	Not available.
Marine Pollutant	Not available.
Special Provisions for Transport	Not applicable.

Section 15. Regulatory Information

HCS Classification	CLASS: Target organ effects.
U.S. Federal Regulations	TSCA 8(b) inventory: CFT Triethylene Glycol SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
International Regulations	
EINECS	Not available.
DSCL (EFC)	This product is not classified according to the EU regulations..
International Lists	No products were found.
State Regulations	Minnesota: Diethylene glycol California prop. 65: No products were found.

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Triethylene Glycol

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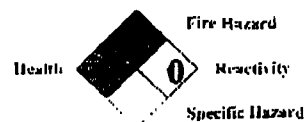
Section 16. Other Information**Label Requirements**

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LIVER.

Hazardous Material Information System (U.S.A.)

Health	2
Fire Hazard	1
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)

**References**

Not available.

Other Special Considerations

Not available.

Validated by Charles Toups on 4/8/2002.

Verified by Charles Toups.

Printed 4/8/2002.

Transportation Emergency Call
 CHEMTREC 800-424-9300
 Other Information Call
 Charles Toups
 337-898-0001

Notice to Reader

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

F-028

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605717-00 MOBIL PEGASUS 89
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

4. FIRST AID MEASURES

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 248(479) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be employed.
SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.
EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

APPEARANCE: Liquid

COLOR: Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: 6.6

BOILING POINT C(F): 388(730)

MELTING POINT C(F): NA

FLASH POINT C(F): > 248(479) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.89

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 121.5

VISCOSITY AT 100 C, cSt: 13.0

POUR POINT C(F): -15(5)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NA

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

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

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

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

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

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

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

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Nov-05-02 11:23

From-AMIGO PETROLEUM CO

5059270820

T-232 P.04/06 F-098

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Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

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

---CHRONIC TOXICOLOGY (SUMMARY)---

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

---SENSITIZATION (SUMMARY)---

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

---OTHER TOXICOLOGY DATA---

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

12. ECOLOGICAL INFORMATION

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

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

13. DISPOSAL CONSIDERATIONS

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

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

14. TRANSPORT INFORMATION

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

Nov-05-02 11:23

From-AMIGO PETROLEUM CO

5053270820

T-232 P.05/06 F-098

1450000

IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

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

EU Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under

SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

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

--- REGULATORY LISTS SEARCHED ---

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

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

16. OTHER INFORMATION

USE: NATURAL GAS ENGINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

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

 For Internal Use Only: MHC: 1* 1* 0* 1* 1*, MPPEC: A, TRN: 605717-00,
 GLIS: 403164, CMCS97: 979930, REQ: US - MARKETING, SAFE USE: L
 EHS Approval Date: 19JUN1999

 Legally required information is given in accordance with applicable
 Information given herein is offered in good faith as accurate, but
 without guarantee. Conditions of use and suitability of the product for
 particular uses are beyond our control; all risks of use of the product
 are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL
 WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO
 THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a
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Date Issued: 05-02-96
Supersedes: 03-20-86TEXACO
MATERIAL SAFETY DATA SHEET

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product Code and Name:

02055 STARTEX ANTIFREEZE COOLANT

Chemical Name and/or Family or Description:
Antifreeze

Manufacturer's Name and Address:

TEXACO LUBRICANTS COMPANY
A DIVISION OF TEXACO REFINING AND MARKETING INC.
P.O. Box 4427
Houston, TX 77210-4427

Telephone Numbers:

Transportation Emergency-Company	:	(914) 831-3400
CHEMTREC	:	(800) 424-9300
Health Emergency -Company	:	(914) 831-3400
General MSDS Assistance	:	(914) 838-7204
Technical Information -Fuels	:	(914) 838-7336
-Chemical	:	(512) 459-6543
-Lubricant/:	:	(800) 782-7852
Antifreezes	:	
-Additives	:	(713) 235-6278
-Solvents	:	(800) 876-3738

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA	IARC	NTP	OTHER	NONE
-	-	-	-	X

Composition: (Sequence Number and Chemical Name)

Seq.	Chemical Name	CAS Number	Range in %
01 *	1,2 ethanediol	107-21-1	95.00-99.99
02 *	Sodium tetraborate pentahydrate	1330-43-4	1.00-2.99

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).

* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

Exposure Limits referenced by Sequence Number in the Composition Section

Seq.	Limit
01	50 ppm CEILING-OSHA
01	39.4 ppm CEILING-ACGIH (AEROSOL) (A4)
02	10 mg/m3 TWA-OSHA
02	1 mg/m3 TWA-ACGIH

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:

Fluorescent green liquid

Odor:

Mild odor

PAGE: 1

N.D. - NOT DETERMINED
< - LESS THANN.A. - NOT APPLICABLE
> - GREATER THAN

N.T. - NOT TESTED



PRODUCT CODE: 02055
NAME: STARTEX ANTIFREEZE COOLANT

Date Issued: 05-02-96
Supersedes: 03-20-96

3. HAZARD IDENTIFICATION (CONT)

WARNING STATEMENT

WARNING ! HARMFUL IF SWALLOWED
MAY CAUSE DIZZINESS AND DROWSINESS
MAY CAUSE EYE IRRITATION
ASPIRATION HAZARD IF SWALLOWED -
CAN ENTER LUNGS AND CAUSE DAMAGE
FOR INDUSTRIAL USE ONLY
CAN CAUSE KIDNEY DAMAGE

ATTENTION ! MAY CAUSE LIVER DAMAGE IF SWALLOWED BASED ON ANIMAL DATA
CONTAINS SODIUM TETRABORATE WHICH MAY CAUSE ADVERSE
REPRODUCTIVE EFFECTS BASED ON ANIMAL DATA
CONTAINS ETHYLENE GLYCOL WHICH MAY CAUSE BIRTH DEFECTS BASED
ON ANIMAL DATA

HMIS		NFPA	
Health: 2	Reactivity: 0	Health: 2	Reactivity: 0
Flammability: 1	Special: -	Flammability: 1	Special: -

POTENTIAL HEALTH EFFECTS

	EYE	SKIN	INHALATION	INGESTION
Primary Route of Exposure:	X	X	X	-

EFFECTS OF OVEREXPOSURE

Acute:

Eyes:

May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin:

Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation:

Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Prolonged or repeated overexposure may result in the absorption of potentially harmful amounts of material.

Ingestion:

Contains ethylene glycol and/or diethylene glycol, which are toxic when swallowed. A lethal dose for an adult is 1-2 ml per kilogram, or about 4 ounces (one-half cup). Symptoms include headache, weakness, confusion, dizziness, staggering, slurred speech, loss of coordination, faintness, nausea and vomiting, increased heart rate, decreased blood pressure, difficulty breathing and seeing, pulmonary edema, unconsciousness, convulsions, collapse, and coma. Symptoms may be delayed. Decreased urine output and kidney failure may also occur. Severe poisoning may cause death.

Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Sensitization Properties:

Unknown.

Chronic:

Prolonged and repeated overexposure may cause kidney damage.

Medical Conditions Aggravated by Exposure:

Repeated overexposure may aggravate existing kidney disease.

Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

PAGE: 2

N.D. - NOT DETERMINED
< - LESS THAN

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PRODUCT CODE: 02055
NAME: STARTEX ANTIFREEZE COOLANT

Date Issued: 05-02-96
Supersedes: 03-20-96

3. HAZARD IDENTIFICATION (CONT)

Other Remarks:
None

4. FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:

If person is conscious and can swallow, immediately give two glasses (i.e., 16 oz.) of water. Induce vomiting as directed by medical personnel. Get immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:

Ethylene glycol (EG) and diethylene glycol (DEG) intoxication may initially produce behavioral changes, drowsiness, vomiting, diarrhea, thirst, and convulsions. EG and DEG are nephrotoxic. End stages of poisoning may include renal damage or failure with acidosis. Supportive measures, supplemented with hemodialysis if indicated, may limit the progression and severity of toxic effects.

FOR ETHYLENE GLYCOL POISONING intravenous ethanol is a recognized antidotal treatment; other antidotal treatments also exist for EG poisoning.

FOR DIETHYLENE GLYCOL POISONING the role of intravenous ethanol in the treatment is unclear but it may be of benefit in view of structural and toxicological similarities to ethylene glycol. Contact a Poison Center for further treatment information.

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees F):

Not determined.

Flash Point (degrees F):

240 (COC)

Flammable Limits (%):

Lower: Not determined.

Upper: Not determined.

Recommended Fire Extinguishing Agents And Special Procedures:

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:

None

Extinguishing Media Which Must Not Be Used:

Not determined.

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

PAGE: 3

N.O. - NOT DETERMINED
< - LESS THAN

N.A. - NOT APPLICABLE
> - GREATER THAN

N.T. - NOT TESTED



PRODUCT CODE: 02055
NAME: STARTEX ANTIFREEZE COOLANT

Date Issued: 05-02-96
Supersedes: 03-20-86

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:
Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

If more than 5,241 pounds of product is spilled, then report spill according to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for the petroleum exemption (CERCLA Section 101(14)).

7. HANDLING AND STORAGE

Precautions to be Taken in

Handling:

Minimum feasible handling temperatures should be maintained.

Storage:

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Adequate to meet component occupational exposure limits (see Section 2).

Exposure Limit for Total Product:

None established for product; refer to Section 2 for component exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Fluorescent green liquid

Odor:

Mild odor

Boiling Point (degrees F):

388

Melting/Freezing point (degrees F):

Not applicable.

Specific Gravity (water=1):

1.13

pH of undiluted product:

10.8

Vapor Pressure:

< .1 mmHg

Viscosity:

< 20 cSt at 40.0 C

PAGE: 4

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N.T. - NOT TESTED

Date Issued: 05-02-96
Supersedes: 03-20-96

N.T. - NOT TESTED



PRODUCT CODE: 02055
NAME: STARTEX ANTIFREEZE COOLANT

Date Issued: 05-02-96
Supersedes: 03-20-96

13. TRANSPORT INFORMATION

Transportation

DOT:

Proper Shipping Name:
Not regulated

This product contains a DOT Hazardous Substance or Substances, listed in Section 14 of the MSDS. If the product's shipping container holds at least 5.241 lbs, then the DOT information must be accompanied with RQ notation, or, an otherwise 'Not Regulated' product will be classified as Environmentally Hazardous (solid/liquid) N.O.S., Class 9, unless the product qualifies for the petroleum exemption (49 CFR 171.8).

IMDG:

Proper Shipping Name:
Not evaluated

ICAO:

Proper Shipping Name:
Not evaluated

TDG:

Proper Shipping Name:
Not evaluated

14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

Seq.	Chemical Name	CAS Number	Range in %
None			

Section 302/304 Extremely Hazardous Substances (CONT)

Seq.	TPO	RQ
None		

Section 311 Hazardous Categorization:

Acute	Chronic	Fire	Pressure	Reactive	N/A
X	X	-	-	-	-

Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
1,2 ethanediol	107-21-1	95.00-99.99

CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance)

Seq.	Chemical Name	CAS Number	Range in %
01+	1,2 ethanediol	107-21-1	95.00-99.99
02+	Sodium hydroxide	1310-73-2	0.10-0.99
03+	Phosphoric acid	7664-38-2	0.10-0.99

CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's):

Seq.	RQ
01+	5000
02+	1000
03+	5000

TSCA Inventory Status:

This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Other:

None.

State Regulations:

California Proposition 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS Number
None	

States Right-to-know Regulations:

Chemical Name

State Right-to-know

PAGE: 6

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> - GREATER THAN

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PRODUCT CODE: 02066 Date Issued: 05-02-98
NAME: STARTEX ANTIFREEZE COOLANT Supersedes: 02-20-98

14. REGULATORY INFORMATION (CONT)

Phosphoric acid	CT, FL, IL, MA, NJ, PA, RI
Sodium hydroxide	CT, FL, IL, MA, NJ, PA, RI
Sodium tetraborate pentahydrate	FL, MA, PA
1,2 Ethanediol	FL, IL, MA, NJ, PA, RI

State list: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan),
LA (Louisiana), MA (Massachusetts), NJ (New Jersey),
PA (Pennsylvania), RI (Rhode Island)

International Regulations:

WHMIS Classification:
Class D, Div 1, Subdiv B: Toxic
Class D, Div 2, Subdiv A: Teratogenic

Canada Inventory Status:
This product, or its components, are listed on or are exempt from the
Canadian Domestic Substance List (DSL).

EINECS Inventory Status:
Not determined.

Australia Inventory Status:
Not determined.

Japan Inventory Status:
Not determined.

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:
Not determined.

Mobility:
Not determined.

Persistence and Biodegradability:
This product is estimated to have a moderate rate of biodegradation:
greater than or equal to 20 % degradation over a test period of 28 days
or less.

Potential to Bioaccumulate:
This product is estimated to have a low potential to bioconcentrate.

Remarks:
None

16. OTHER INFORMATION

Acute or chronic oral consumption of products containing ethylene glycol
can produce significant adverse health effects, including death, in humans
and animals. Keep out of reach of children and pets. Such products should
not be used in potable (drinking) water systems or other systems where con-
tamination of potable water supplies is possible (e.g., recreational ve-
hicles, winterizing potable water systems).

Texaco recommends that all exposures to this product be minimized by
strictly adhering to recommended occupational controls procedures to avoid
any potential adverse health effects.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED
INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION
AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE
PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR
IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS
MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA
SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA
SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU
ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH
SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

PAGE: 7

N.D. - NOT DETERMINED	N.A. - NOT APPLICABLE	N.T. - NOT TESTED
< - LESS THAN	> - GREATER THAN	



PRODUCT CODE: 02055
NAME: STARTEX ANTIFREEZE COOLANT

Date Issued: 05-02-96
Supersedes: 03-20-96

16. OTHER INFORMATION (CONT)

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

Date: 05-02-96 New ☒ Revised. Supersedes: 03-20-96
Date printed: 05-06-96

Inquiries regarding MSDS should be directed to:
Texaco Inc.
Manager, Product Safety
P.O. Box 509
Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

PRODUCT CODE: 02055
NAME: STARTEX ANTIFREEZE COOLANT

Date Issued: 05-02-86
Supersedes: 03-20-96



17. PRODUCT LABEL

Label Date: 03-20-96

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

02055 STARTEX ANTIFREEZE COOLANT

WARNING STATEMENT

WARNING ! HARMFUL IF SWALLOWED
MAY CAUSE DIZZINESS AND DROWSINESS
MAY CAUSE EYE IRRITATION
ASPIRATION HAZARD IF SWALLOWED -
CAN ENTER LUNGS AND CAUSE DAMAGE
FOR INDUSTRIAL USE ONLY
CAN CAUSE KIDNEY DAMAGE
MAY CAUSE LIVER DAMAGE IF SWALLOWED BASED ON ANIMAL DATA

ATTENTION ! CONTAINS SODIUM TETRABORATE WHICH MAY CAUSE ADVERSE
REPRODUCTIVE EFFECTS BASED ON ANIMAL DATA
CONTAINS ETHYLENE GLYCOL WHICH MAY CAUSE BIRTH DEFECTS BASED
ON ANIMAL DATA

PRECAUTIONARY MEASURES

- Use only with adequate ventilation.
- Avoid breathing vapor, mist, or gas.
- Avoid contact with eyes, skin, and clothing.
- Keep container closed.
- Wash thoroughly after handling.

FIRST AIDEye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin Contact:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:

If person is conscious and can swallow, immediately give two glasses (i.e., 16 oz.) of water. Induce vomiting as directed by medical personnel. Get immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Note to Physician:

Ethylene glycol (EG) and diethylene glycol (DEG) intoxication may initially produce behavioral changes, drowsiness, vomiting, diarrhea, thirst, and convulsions. EG and DEG are nephrotoxic. End stages of poisoning may include renal damage or failure with acidosis. Supportive measures, supplemented with hemodialysis if indicated, may limit the progression and severity of toxic effects.

FOR ETHYLENE GLYCOL POISONING intravenous ethanol is a recognized antidotal treatment; other antidotal treatments also exist for EG poisoning.

FOR DIETHYLENE GLYCOL POISONING the role of intravenous ethanol in the treatment is unclear but it may be of benefit in view of structural and toxicological similarities to ethylene glycol. Contact a Poison Center for further treatment information.

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

FIRE

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers.

If more than 5,241 pounds of product is spilled, then report spill according to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for the petroleum exemption (CERCLA Section 101(14)).

Chemical Name

CAS Number

Range in %

PAGE: 9

N.D. - NOT DETERMINED
< - LESS THAN

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> - GREATER THAN

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PRODUCT CODE: 02055
NAME: STARTEX ANTIFREEZE COOLANT

Date Issued: 05-02-96
Supersedes: 03-20-96

17. PRODUCT LABEL (CONT)

Label Date: 03-20-96

* 1,2 ethanediol	107-21-1 95.00-99.99
* Sodium tetraborate pentahydrate	1330-43-4 1.00-2.99

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).
- COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

<u>Pennsylvania Special Hazardous Substance(s)</u>	<u>CAS Number</u>	<u>Range in %</u>
None		

HMIS		NFPA	
Health: 2	Reactivity: 0	Health: 2	Reactivity: 0
Flammability: 1	Special: -	Flammability: 1	Special: -

Transportation

DOT:

Proper Shipping Name:
Not regulated

This product contains a DOT Hazardous Substance or Substances, listed in Section 14 of the MSDS. If the product's shipping container holds at least 5,241 lbs. then the DOT information must be accompanied with RQ notation, or, an otherwise 'Not Regulated' product will be classified as Environmentally Hazardous (solid/liquid) N.O.S., Class 9, unless the product qualifies for the petroleum exemption (49 CFR 171.8).

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

Manufacturer's Name and Address:
TEXACO LUBRICANTS COMPANY
A DIVISION OF TEXACO REFINING AND MARKETING INC.
P.O. Box 4427
Houston, TX 77210-4427

TRANSPORTATION EMERGENCY Company: (914) 831-3400
CHEMTREC: (800) 424-9300

HEALTH EMERGENCY Company: (914) 831-3400

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

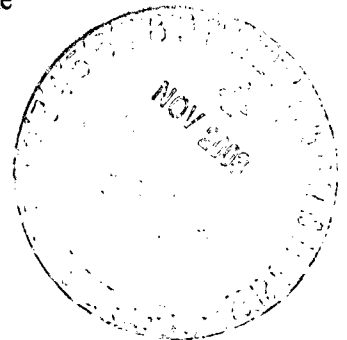
Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator Key Energy Services, Inc.
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site Key Energy Services Inc.
3. Address of Facility Operator #345 CR 3500 AZTEC NM	6. Transporter KEY
7. Location of Material (Street Address or ULSTR) Lat: 36 degrees, 57 min, 16 sec. N Long: 107 degree, 46 min, 38 sec. W	8. State 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:

Produced water mixed with diesel and sediments resulting from a 40 bbl bobtail water truck wreck on the Navajo Dam road on 9-27-03.



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

SIGNATURE Michael Talovich TITLE: FACILITY MANAGER DATE: 11-11-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Denny Faint TITLE: Enviro/Engl DATE: 11/11/03
APPROVED BY: Anthony J. H. TITLE: Environmental Geologist-1 DATE: 11/13/03

11303-1



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson
Governor

Cabinet Secretary

Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Key Energy Services, Inc. Four Corners Division 5651 US Highway 64 Farmington, NM 87401	2. Destination Name: Key Energy Services, Disposal 345 C. R. 3500 Aztec, NM 87410
3. Originating Site (name): Key Energy Services, Inc. Four Corners Division 5651 US Highway 64 Farmington, NM 87401	Location of the Waste (Street address &/or ULSTR): Latitude: 36 Degrees, 57 Min, 16 Sec. North Longitude: 107 Degree, 46 Min., 38 Sec. West
attach list of originating sites as appropriate	
4. Source and Description of Waste Produced water mixed with diesel and sediments resulting from a 40 bbl Bobtail Water Truck wreck on Navajo Dam Road on September 27, 2003.	

I, **Rick Brazfield** representative for **Key Energy Services, Four Corners Division** do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

☐ EXEMPT oilfield waste

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

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

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

☐ MSDS Information

☐ Other (description)

☒ RCRA Hazardous Waste Analysis

☒ Chain of Custody

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

Name (Original Signature):

Title:

Safety & Environmental Division Manager

Date:

September 27, 2003

Revised 11-11-03

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

Date: 13-Oct-03

ANALYTICAL REPORT

CLIENT: Souder, Miller & Associates

Work Order: 0310001

Project: 5114321; Key Energy

Lab ID: 0310001-001A

Client Sample Info: Key Energy

Client Sample ID: Lower SO1

Collection Date: 9/27/2003 3:34:00 PM

Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	10/6/2003
Ethylbenzene	ND	0.5		µg/L	1	10/6/2003
m,p-Xylene	ND	1.0		µg/L	1	10/6/2003
o-Xylene	ND	0.5		µg/L	1	10/6/2003
Toluene	ND	0.5		µg/L	1	10/6/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 1 of 4

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 13-Oct-03

CLIENT: Souder, Miller & Associates
Work Order: 0310001
Project: 5114321; Key Energy
Lab ID: 0310001-002A

Client Sample Info: Key Energy
Client Sample ID: Upper SO2
Collection Date: 9/27/2003 4:00:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	10/6/2003
Ethylbenzene	7.5	0.5		µg/L	1	10/6/2003
m,p-Xylene	19	1.0		µg/L	1	10/6/2003
o-Xylene	9.2	0.5		µg/L	1	10/6/2003
Toluene	5.8	0.5		µg/L	1	10/6/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 2 of 4

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 327-1072
FAX: (505) 327-1496

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 13-Oct-03

CLIENT: Souder, Miller & Associates
Work Order: 0310001
Project: 5114321; Key Energy
Lab ID: 0310001-002B

Client Sample Info: Key Energy
Client Sample ID: Upper SO2
Collection Date: 9/27/2003 4:00:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B		(SW3510B)		Analyst: JEM
T/R Hydrocarbons: C10-C28	11.1	0.25		mg/L	1	10/7/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 3 of 4

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 13-Oct-03

CLIENT: Souder, Miller & Associates

Client Sample Info: Key Energy

Work Order: 0310001

Client Sample ID: Trip Blank

Project: 5114321; Key Energy

Collection Date: 9/27/2003 2:50:00 PM

Lab ID: 0310001-003A

Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: JEM	
Benzene	ND	0.5		µg/L	1	10/6/2003
Ethylbenzene	ND	0.5		µg/L	1	10/6/2003
m,p-Xylene	ND	1.0		µg/L	1	10/6/2003
o-Xylene	ND	0.5		µg/L	1	10/6/2003
Toluene	ND	0.5		µg/L	1	10/6/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 4 of 4

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

liná bá, Ltd.

Sample Receipt Checklist

Client Name: SMA1005

Date and Time Received:

9/29/2003

Work Order Number: 0310001

Received by: HNR

Checklist completed by:

Signature

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name: Courier

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 ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted? _____ Checked by: _____

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: _____

iiiná bá, Ltd.

Date: 13-Oct-03

CLIENT: Souder, Miller & Associates
Work Order: 0310001
Project: 5114321; Key Energy

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID	MB_031001	SampType: MBLK	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 10/8/2003	Run ID: GC-2_031007A
Client ID:	ZZZZZ	Batch ID: 507	TestNo: SW8015B	(SW3510B)	Analysis Date: 10/7/2003	SeqNo: 72804
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons:	C10-C28	0.1307	0.250			J

Sample ID	LCS_031001	SampType: LCS	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 10/8/2003	Run ID: GC-2_031007A
Client ID:	ZZZZZ	Batch ID: 507	TestNo: SW8015B	(SW3510B)	Analysis Date: 10/7/2003	SeqNo: 72806
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons:	C10-C28	4.307	0.250	5.01	0.1307	83.4 55 120 0 0

Sample ID	LCSD_031001	SampType: LCSD	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 10/8/2003	Run ID: GC-2_031007A
Client ID:	ZZZZZ	Batch ID: 507	TestNo: SW8015B	(SW3510B)	Analysis Date: 10/7/2003	SeqNo: 72807
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons:	C10-C28	4.285	0.250	5.01	0.1307	82.9 55 120 4.307 0.507 20

Sample ID	0309007-006AD	SampType: DUP	TestCode: 8015DRO_W	Units: mg/L	Prep Date: 10/8/2003	Run ID: GC-2_031007A
Client ID:	ZZZZZ	Batch ID: 507	TestNo: SW8015B	(SW3510B)	Analysis Date: 10/7/2003	SeqNo: 72811
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons:	C10-C28	0.6635	0.250	0	0	0 0.6457 2.72 20

Sample ID	CCV1_031007	SampType: CCV	TestCode: 8015DRO_W	Units: mg/L	Prep Date:	Run ID: GC-2_031007A
Client ID:	ZZZZZ	Batch ID: 507	TestNo: SW8015B		Analysis Date: 10/7/2003	SeqNo: 72805
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons:	C10-C28	5.118	0.250	5.01	0	102 85 115 0 0

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

CLIENT: Souder, Miller & Associates
Work Order: 0310001
Project: 5114321; Key Energy

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_W

Sample ID	CCV2_031007	SampType: CCV	TestCode: 8015DRO_W	Units: mg/L	Prep Date:	Run ID: GC-2_031007A						
Client ID: ZZZZZ		Batch ID: 507	TestNo: SW8015B		Analysis Date: 10/7/2003	SeqNo: 72812						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28			0.250	2.5	0	93.6	85	115	0	0		

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX W

Sample ID	MB_031005	SampType:	MBLK	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	10/6/2003	Run ID:	GC-1_031006A
Client ID:	ZZZZZ	Batch ID:	R5014	TestNo:	SW8021B			Analysis Date:	10/6/2003	SeqNo:	72742
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Benzene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylene	ND	1.0
o-Xylene	0.1228	0.50
Toluene	0.2024	0.50

Sample ID	LCS_031005	SampleType:	LCS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	10/6/2003	Run ID:	GC-1_031006A		
Client ID:	ZZZZZ	Batch ID:	R5014	TestNo:	SW8021B			Analysis Date:	10/6/2003	SeqNo:	72741		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	42.25	0.50	40	0	106	85	110	0	0
Ethylbenzene	44.52	0.50	40	0	111	85	113	0	0
m,p-Xylene	87.22	1.0	80	0	109	86	112	0	0
o-Xylene	42.21	0.50	40	0.1228	105	83	112	0	0
Toluene	42.81	0.50	40	0.2024	107	83	110	0	0

Sample ID	0310007-008AMS	SampleType: MS	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A						
Client ID: ZZZZZ		Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72743						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	301.1	2.5	200	102.7	99.2	73	124	0	0
Ethylbenzene	246.1	2.5	200	37.03	105	83	116	0	0
m,p-Xylene	418.4	5.0	400	5.924	103	75	121	0	0
o-Xylene	202.4	2.5	200	3.046	99.7	81	113	0	0
Toluene	205.6	2.5	200	2.722	101	84	110	0	0

Sample ID	0310007-008AMSD	SampleType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A
Client ID: ZZZZZ		Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72744
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC
					LowLimit	HighLimit
					RPD Ref Val	%RPD
						RPDLimit
						Qual

Benzene	299.7
Qualifiers:	
ND - Not Detected at the Reporting Limit	
J - Analyte detected below quantitation limits	

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates
 Work Order: 0310001
 Project: 5114321; Key Energy

TestCode: BTEX_W

Sample ID	0310007-008AMSD	SampType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A					
Client ID: ZZZZZ		Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72744					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	245.1	2.5	200	37.03	104	80	111	246.1	0.422	6.7	
m,p-Xylene	417.4	5.0	400	5.924	103	72	117	418.4	0.255	6.6	
o-Xylene	202.9	2.5	200	3.046	99.9	80	110	202.4	0.231	6.2	
Toluene	205.7	2.5	200	2.722	101	82	110	205.6	0.0671	6.2	

Sample ID	CCV2_031006	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A					
Client ID: ZZZZZ		Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72738					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.07	0.50	40	0	103	85	115	0	0		
Ethylbenzene	43.63	0.50	40	0	109	85	115	0	0		
m,p-Xylene	85.47	1.0	80	0	107	85	115	0	0		
o-Xylene	41.5	0.50	40	0	104	85	115	0	0		
Toluene	41.98	0.50	40	0	105	85	115	0	0		

Sample ID: CCV4_031006	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A						
Client ID: ZZZZZ	Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.93	0.50	20	0	105	85	115	0	0		
Ethylbenzene	22.42	0.50	20	0	112	85	115	0	0		
m,p-Xylene	43.73	1.0	40	0	109	85	115	0	0		
o-Xylene	21.21	0.50	20	0	106	85	115	0	0		
Toluene	21.32	0.50	20	0	107	85	115	0	0		

Sample ID	CCV5_031006	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A					
Client ID: ZZZZZ		Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72740					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.86	0.50	20	0	99.3	85	115	0	0		
Ethylbenzene	21.2	0.50	20	0	106	85	115	0	0		

Qualifiers:

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

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates
Work Order: 0310001
Project: 5114321; Key Energy

TestCode: BTEX_W

Sample ID	CCV5_031006	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A					
Client ID: ZZZZZ		Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72740					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	41.34	1.0	40	0	103	85	115	0	0		
o-Xylene	20.22	0.50	20	0	101	85	115	0	0		
Toluene	20.22	0.50	20	0	101	85	115	0	0		

Sample ID	CCV1_031006	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/6/2003	Run ID: GC-1_031006A					
Client ID: ZZZZZ		Batch ID: R5014	TestNo: SW8021B		Analysis Date: 10/6/2003	SeqNo: 72745					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.46	0.50	20	0	107	85	115	0	0		
Ethylbenzene	22.65	0.50	20	0	113	85	115	0	0		
m,p-Xylene	43.95	1.0	40	0	110	85	115	0	0		
o-Xylene	21.36	0.50	20	0	107	85	115	0	0		
Toluene	21.77	0.50	20	0	109	85	115	0	0		

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

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

iiná bá, Ltd.

Date: 13-Oct-03

CLIENT: Souder, Miller & Associates

Work Order: 0310001

Project: 5114321; Key Energy

Test No: SW8015B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	OT						
0309007-006AD	93.0						
0310001-002B	94.5						
CCV1_031007	105						
CCV2_031007	103						
LCS_031001	93.6						
LCSD_031001	90.8						
MB_031001	91.4						

Acronym

OT

Surrogate

= o-Terphenyl

QC Limits

14-146

* Surrogate recovery outside acceptance limits

CLIENT: Souder, Miller & Associates

Work Order: 0310001

Project: 5114321; Key Energy

Test No: SW8021B

Matrix: W

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID	14FBZ	4BCBZ	FLBZ					
0310001-001A	107	118	105					
0310001-002A	108	119	105					
0310001-003A	108	114	105					
0310007-008AMS	106	105	104					
0310007-008AMSD	106	107	103					
CCV1_031006	107	115	104					
CCV2_031006	106	115	103					
CCV4_031006	107	112	105					
CCV5_031006	107	113	104					
LCS_031005	107	115	104					
MB_031005	107	114	105					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	90-113
4BCBZ	= 4-Bromochlorobenzene	82-137
FLBZ	= Fluorobenzene	85-115

* Surrogate recovery outside acceptance limits



612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
Phone: (505) 327-1072 • Fax: (505) 327-1496

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DISTRIBUTION WHITE - Lab • YELLOW - Client • PINK - Courier

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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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

AUG 14 2003

OIL CONSERVATION
DIVISION

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

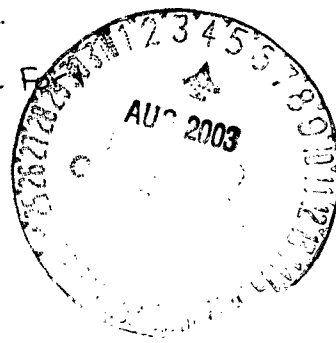
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator SAFETY KLEEN
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site SAFETY KLEEN YARD
3. Address of Facility Operator #345 CR 3500 AZTEC NM	6. Transporter SAFETY KLEEN
7. Location of Material (Street Address or ULSTR) 4201 A HAWKINS ROAD FARMINGTON, NM 87401	8. State 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:

OILFIELD WASTE WATER COLLECTED BY SAFETY KLEEN, INCLUDES PRODUCED WATER.

This Approval is For one month From The Approval Date. Acceptance For this waste stream can be reapplied for with New Analytical on a monthly basis. After six months of Analytical History on this waste stream the OCD will Review the Need For monthly Testing and Make New Recommendations. Myk



Estimated Volume 120 BBLS per DAY For one month myk cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Michael Talovich TITLE: FACILITY MANAGER DATE: 8-4-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Denny Fount TITLE: Enviro/Engr DATE: 8/11/03
APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 8/15/03

1-50503-1



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address <u>Safety Klean Systems Inc. dba</u> <u>4210 A Hawkins Road</u> <u>Farmington, NM 87401</u>	2. Destination Name: <u>Key Disposal</u>
3. Originating Site (name): <u>Safety Klean Yard</u>	Location of the Waste (Street address &/or ULSTR): <u>Same as Above</u>
attach list of originating sites as appropriate	
4. Source and Description of Waste <u>Oilfield Wastewater - Non Exempt may include produced water</u>	

I, Mike Crawford representative for :
Print Name

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

☐ **EXEMPT** oilfield waste

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

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

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

☐ MSDS Information

☐ Other (description)

☒ RCRA Hazardous Waste Analysis

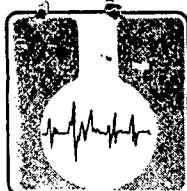
☒ Chain of Custody

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

Name (Original Signature): Mike B. Crawford

Title: GM

Date: 7/1/03



ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

SAFETY KLEEN
attn: **MIKE CRAWFORD**
2720 GIRARD NE
ALBUQUERQUE

NM 87107

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

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **SAFETY KLEEN**
Project: **SAFETY KLEEN-VARIOUS PRODUCED WATER**
Order: **0306200 SAF03** Receipt: **06-06-03**

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

Sample: **VARIOUS PRODUCED WATER**
Matrix: **C**

Collected: 06-05-03 15:30:00 By: **IH**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0306200-01B		SW846 1311/3010A/6010A ICP TCLP						By: JRE		
M03761	MT.2003.745.101	7440-38-2	Arsenic	0.2	mg / L	1	0.1		06-11-03	06-15-03
M03761	MT.2003.745.101	7440-39-3	Barium	1.2	mg / L	1	0.1		06-11-03	06-15-03
M03761	MT.2003.745.101	7440-43-9	Cadmium	ND	mg / L	1	0.02		06-11-03	06-15-03
M03761	MT.2003.765.11	7440-47-3	Chromium	ND	mg / L	1	0.02		06-11-03	06-18-03
M03761	MT.2003.745.101	7439-92-1	Lead	0.08	mg / L	1	0.05	B	06-11-03	06-15-03
M03761	MT.2003.745.101	7782-49-2	Selenium	ND	mg / L	1	0.05		06-11-03	06-15-03
0306200-01B		SW846 1311/3010A/7000 series AA-FL TCLP						By: JRE		
M03761	MT.2003.746.48	7440-22-4	Silver	ND	mg / L	1	0.01		06-11-03	06-12-03
0306200-01B		SW846 1311/3510B/8270B SVOCs by GC/MS TCLP						By: DS\B		
X03216	XG.2003.970.2	106-46-7	1,4-Dichlorobenzene	ND	mg / L	1	0.001	2	06-10-03	06-10-03
X03216	XG.2003.970.2	95-95-4	2,4,5-Trichlorophenol	ND	mg / L	1	0.01	2	06-10-03	06-10-03
X03216	XG.2003.970.2	88-06-2	2,4,6-Trichlorophenol	ND	mg / L	1	0.01	2	06-10-03	06-10-03
X03216	XG.2003.970.2	121-14-2	2,4-Dinitrotoluene	ND	mg / L	1	0.01	2	06-10-03	06-10-03
X03216	XG.2003.970.2	118-74-1	Hexachlorobenzene	ND	mg / L	1	0.001	2	06-10-03	06-10-03
X03216	XG.2003.970.2	87-68-3	Hexachlorobutadiene	ND	mg / L	1	0.001	2	06-10-03	06-10-03
X03216	XG.2003.970.2	67-72-1	Hexachloroethane	ND	mg / L	1	0.001	2	06-10-03	06-10-03
X03216	XG.2003.970.2		m-Cresol & p-Cresol	0.073	mg / L	1	0.001	2	06-10-03	06-10-03
X03216	XG.2003.970.2	98-95-3	Nitrobenzene	ND	mg / L	1	0.001	2	06-10-03	06-10-03
X03216	XG.2003.970.2	95-48-7	o-Cresol	0.082	mg / L	1	0.001	2	06-10-03	06-10-03
X03216	XG.2003.970.2	87-86-5	Pentachlorophenol	ND	mg / L	1	0.01	2	06-10-03	06-10-03
X03216	XG.2003.970.2	110-86-1	Pyridine	ND	mg / L	1	0.01	2	06-10-03	06-10-03
0306200-01B		SW846 1311/7470 CVAA TCLP						By: JRE		
M03763	MT.2003.734.50	7439-97-6	Mercury	ND	mg / L	1	0.0002		06-12-03	06-12-03



SQLCoyote: Reports 1.0.0305281535XX

Report Date 06/19/2003 2:27 PM

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL.
THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.



Assalgal Analytical Laboratories, Inc.
Certificate of Analysis

Client: **SAFETY KLEEN**
 Project: **SAFETY KLEEN-VARIOUS PRODUCED WATER**
 Order: **0306200 SAF03** Receipt: **06-06-03**

Sample: **VARIOUS PRODUCED WATER**
 Matrix: **C**

Collected: 06-05-03 15:30:00 By: **IH**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0306200-01B		SW846 1311/8260B Purgeable VOCs by GC/MS TCLP						By: JDR		
X03262	XG.2003.978.4	75-35-4	1,1 Dichloroethylene	ND	mg / L	50	0.001	1	06-11-03	06-11-03
X03262	XG.2003.978.4	107-06-2	1,2 Dichloroethane (EDC)	ND	mg / L	50	0.001	1	06-11-03	06-11-03
X03262	XG.2003.978.4	71-43-2	Benzene	0.067	mg / L	50	0.001	1	06-11-03	06-11-03
X03262	XG.2003.978.4	56-23-5	Carbon tetrachloride	ND	mg / L	50	0.001	1	06-11-03	06-11-03
X03262	XG.2003.978.4	108-90-7	Chlorobenzene	ND	mg / L	50	0.001	1	06-11-03	06-11-03
X03262	XG.2003.978.4	67-66-3	Chloroform	ND	mg / L	50	0.001	1	06-11-03	06-11-03
X03262	XG.2003.978.4	78-93-3	Methyl ethyl ketone	ND	mg / L	50	0.005	1	06-11-03	06-11-03
X03262	XG.2003.989.7	127-18-4	Tetrachloroethylene	ND	mg / L	50	0.001	1	06-12-03	06-12-03
X03262	XG.2003.978.4	79-01-6	Trichloroethylene	ND	mg / L	50	0.001	1	06-11-03	06-11-03
X03262	XG.2003.978.4	75-01-4	Vinyl chloride	ND	mg / L	50	0.001	1	06-11-03	06-11-03

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 footnotes will appear below.

1 Sample was analyzed with headspace.

2 A surrogate recovery was outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.



**THE REPRODUCTION OF
THE
FOLLOWING
DOCUMENT (S)
CANNOT BE IMPROVED
DUE TO
THE CONDITION OF
THE ORIGINAL**



Lab Job No. 0306200
Date 6/11/13

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

**3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-5000**

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544

Page of

Client: Softex Klein.

Project Manager / Contact Mike

Address _____

Telephone No. _____

City / State / Zip _____

Fax No. _____

Project Name / Number Safety Klean-Variants

Samplers : (signature) _____

Contract / Purchase Order / Quote Produced Water

[illegible][illegible][illegible]

Relinquished by: [Signature]
Signature: [Signature]

Date 10-26-85

Received by: _____
Signature: _____

Relinquished by: _____
Signature _____

Printed Lucas Heredia

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Printed Robert C. Adams

Printed _____

Company Schrock

2562

Company AT&T

Company _____

Cond. of env 40°C

Customer's name: Mr. J. K. Smith

After analysis, samples are to be:

Shipment No. _____

Comments: 1187

☐ Disposed of (addition)

Special instructions: _____

16

- ☐ Stored (30 days max)
- ☐ Stored over 30 days

1

[illegible]☐ Returned to customer

CARROLL

Kieling, Martyne

From: Kieling, Martyne
Sent: Monday, August 04, 2003 2:21 PM
To: Foust, Denny
Subject: Safety Kleen

Denny,

Roger and I met with Mike Crawford of Safety Kleen today. We discussed the processes and waste streams that Safety Kleen would be picking up and the testing frequency that would be required.

Safety Kleen will be picking up compressor oil, engine oil and some produced water, hence the C-133 authorization. I will review the C-138's when they come in. I will also be adding to any approval that the waste stream be sampled and analyzed on a monthly basis for the first 6 months and then based on what shows up the analytical may then be stretched to 1 year. Because Safety Kleen will be accepting both exempt and non-exempt waste streams and then mixing them and gravity separating they will be designating the waste stream that they generate as nonexempt.

Let me know if you have any questions.

Mike T. already called and said he would be submitting a new C-138 through you.

Martyne J. Kieling

Martyne J. Kieling
Environmental Geologist

martynekieling

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1361 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

MAY 22 2003

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator SAFETY-KLEEN SYSTEMS
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site FARMINGTON YARD
3. Address of Facility Operator #345 CR 3500 AZTEC NM	6. Transporter KEY
7. Location of Material (Street Address or ULSTR) 4201 A HAWKINS ROAD FARMINGTON, NM 87401	8. State 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: OILFIELD WASTE WATER COLLECTED BY SAFETY KLEEN

DENIED... because of improper analytical sampling (headspace) and unpreserved (iced) samples void the analysis. Please make sure all samples collected for testing are collected and preserved according to EPA requirements. This includes correct containers, zero headspace, and any preservative to include ice. The samples must be received at the lab at 4C +-2C and the receiving temperature must be noted on the chain of custody.

Because Safety-Kleen does at times haul and manage hazardous wastes, at this time the OCD has determined that the oilfield waste-water collected by Safety-Kleen for disposal at an OCD permitted surface waste management facility, such as Key Energy Disposal - Permit NM-01-0009, must provide new RCRA hazardous waste analytical results for each waste shipment to an OCD permitted facility. For additional information or clarification please call for a consultation with Roger Anderson and Martyne Kieling at your earliest convenience 505-476-3490 or 505-476-3488.

Estimated Volume 75,000 GALLONS PER MONTH cy Known Volume (to be entered by the operator at the end of the haul)
_____ cy

SIGNATURE

Michael Talovich
Waste Management Facility Authorized Agent

TITLE: FACILITY MANAGER

DATE: 5-16-03

TYPE OR PRINT NAME: MICHAEL TALOVICH

TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY:

Denny Fount

TITLE:

Enviro/Eng

DATE:

5/20/03

APPROVED BY:

Martyne Kieling

TITLE:

Environmental Geologist

DATE:

5/23/03

DENIED

1-505250



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenberg

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Safety Kleen Systems Inc. dba 4210 A Hawkins Road Farmington, NM 87401	2. Destination Name: Key Disposal
3. Originating Site (name): Safety Kleen Yard :ULSTR): Same as above attach list of originating sites as appropriate	
4. Source and Description of Waste Oilfield waste water-Non Exempt	

I, Mike Crawford representative for :
Print Name

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

EXEMPT oilfield waste

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

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

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

MSDS Information

Other (description)

X RCRA Hazardous Waste Analysis

X Chain of Custody

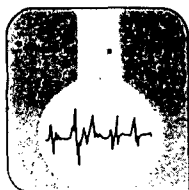
**This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20
NMAC 3.1 subpart 1403.C and D.**

Name (Original Signature):

Title:

General Manager

martyne,
Safety Kleen hopes to establish that
their regular customers generate non-~~hazardous~~
hazardous material, eventually to use
knowledge of process with annual
testing. Safety Kleen will file a list of
facilities and ~~the~~ well-sites which
are sources for waste.



ASSAIGAI ANALYTICAL LABORATORIES, INC.

P.O. Box 90430 • Albuquerque, New Mexico 87199 • (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

SAFETY KLEEN

attn: MIKE CRAWFORD

2720 GIRARD NE

ALBUQUERQUE

NM 87107

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: SAFETY KLEEN

Project: PESCO #1, #2

Order: 0303521 SAF03

Receipt: 03-26-03

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

Sample: PESCO #1

Collected: 03-20-03 0:00:00 By: RE

Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0303521-01A		EPA 150.1 pH, Electrometric						By: DAH		
WPH0345	WC.2003.769.5		pH	6.7	units	1	0.1	H	03-28-03	03-28-03
WPH0345	WC.2003.769.5		sample temperature @	8.8	deg C	1	0		03-28-03	03-28-03
0303521-01A		SW846 1010						By: RAC		
WFL039	WC.2003.803.3		Flashpoint	> 60.0	Deg C	1	20		04-03-03	04-03-03
0303521-01A		SW846 3005A/6010A ICP						By: JRE		
M03403	MT.2003.377.63	7440-38-2	Arsenic	ND	mg / L	1	0.06		04-01-03	04-01-03
M03403	MT.2003.377.63	7440-39-3	Barium	0.15	mg / L	1	0.01		04-01-03	04-01-03
M03403	MT.2003.377.63	7440-43-9	Cadmium	0.008	mg / L	1	0.006		04-01-03	04-01-03
M03403	MT.2003.377.63	7440-47-3	Chromium	0.02	mg / L	1	0.01		04-01-03	04-01-03
M03403	MT.2003.377.63	7439-92-1	Lead	0.08	mg / L	1	0.06		04-01-03	04-01-03
M03403	MT.2003.377.63	7782-49-2	Selenium	ND	mg / L	1	0.05		04-01-03	04-01-03
M03403	MT.2003.377.63	7440-22-4	Silver	ND	mg / L	1	0.01		04-01-03	04-01-03
0303521-01A		SW846 3510B/8270B SVOCs by GC/MS						By: DS		
X03107	XG.2003.591.3	106-46-7	1,4-Dichlorobenzene	ND	ug / L	10	1	1	04-03-03	04-08-03
X03107	XG.2003.591.3	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	10	5	1	04-03-03	04-08-03
X03107	XG.2003.591.3	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	10	5	1	04-03-03	04-08-03
X03107	XG.2003.591.3	121-14-2	2,4-Dinitrotoluene	ND	ug / L	10	5	1	04-03-03	04-08-03
X03107	XG.2003.591.3	95-48-7	2-Methylphenol	ND	ug / L	10	1	1	04-03-03	04-08-03
X03107	XG.2003.591.3		3+4 Methylphenol	ND	ug / L	10	1	1	04-03-03	04-08-03
X03107	XG.2003.591.3	118-74-1	Hexachlorobenzene	ND	ug / L	10	10	1	04-03-03	04-08-03
X03107	XG.2003.591.3	87-68-3	Hexachlorobutadiene	ND	ug / L	10	10	1	04-03-03	04-08-03
X03107	XG.2003.591.3	67-72-1	Hexachloroethane	ND	ug / L	10	5	1	04-03-03	04-08-03
X03107	XG.2003.591.3	98-95-3	Nitrobenzene	ND	ug / L	10	1	1	04-03-03	04-08-03

Assalgal Analytical Laboratories, Inc.
Certificate of Analysis

Client: **SAFETY KLEEN**
 Project: **PESCO #1, #2**
 Order: **0303521 SAF03**

Receipt: **03-26-03**

Sample: **PESCO #1**

Collected: 03-20-03 0:00:00 By: RE

Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0303521-01A		SW846 3510B/8270B SVOCs by GC/MS						By: DS		
X03107	XG.2003.591.3	87-86-5	Pentachlorophenol	ND	ug / L	10	10	1	04-03-03	04-08-03
X03107	XG.2003.591.3	110-86-1	Pyridine	ND	ug / L	10	10	1	04-03-03	04-08-03
0303521-01A		SW846 7470 Mercury by CVAA						By: JRE		
M03411	MT.2003.379.52	7439-97-6	Mercury	0.0216	mg / L	10	0.0002		04-02-03	04-02-03
0303521-01A		SW846 8260B Purgeable VOCs by GC/MS						By: JAA		
X03145	XG.2003.615.3	75-35-4	1,1 Dichloroethene	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	78-93-3	2-Butanone (MEK)	30	ug / L	5	5	23	04-04-03	04-04-03
X03145	XG.2003.615.3	71-43-2	Benzene	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	56-23-5	Carbon tetrachloride	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	108-90-7	Chlorobenzene	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	67-66-3	Chloroform	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	79-01-6	Trichloroethene	ND	ug / L	5	1	23	04-04-03	04-04-03
X03145	XG.2003.615.3	75-01-4	Vinyl chloride	ND	ug / L	5	5	23	04-04-03	04-04-03
0303521-01A		SW846 Sect. 7.3						By: DAH		
W03114	WC.2003.777.5	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		03-31-03	04-01-03
W03114	WC.2003.776.4		Sulfide, Reactive	ND	mg / Kg	1	500		03-31-03	03-31-03

Sample: **PESCO #2**

Collected: 03-20-03 0:00:00 By: RE

Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0303521-02A		EPA 150.1 pH, Electrometric						By: DAH		
WPH0345	WC.2003.769.6		pH	6.8	units	1	0.1	H	03-28-03	03-28-03
WPH0345	WC.2003.769.6		sample temperature @	10.0	deg C	1	0		03-28-03	03-28-03
0303521-02A		SW846 1010						By: RAC		
WFL039	WC.2003.803.4		Flashpoint	> 60.0	Deg C	1	20		04-03-03	04-03-03
0303521-02A		SW846 3005A/6010A ICP						By: JRE		
M03403	MT.2003.377.64	7440-38-2	Arsenic	ND	mg / L	1	0.06		04-01-03	04-01-03
M03403	MT.2003.377.64	7440-39-3	Barium	0.17	mg / L	1	0.01		04-01-03	04-01-03
M03403	MT.2003.377.64	7440-43-9	Cadmium	0.013	mg / L	1	0.006		04-01-03	04-01-03
M03403	MT.2003.377.64	7440-47-3	Chromium	ND	mg / L	1	0.01		04-01-03	04-01-03
M03403	MT.2003.377.64	7439-92-1	Lead	ND	mg / L	1	0.06		04-01-03	04-01-03
M03403	MT.2003.377.64	7782-49-2	Selenium	0.08	mg / L	1	0.05		04-01-03	04-01-03
M03403	MT.2003.377.64	7440-22-4	Silver	ND	mg / L	1	0.01		04-01-03	04-01-03
0303521-02A		SW846 3510B/8270B SVOCs by GC/MS						By: DS		
X03107	XG.2003.591.2	106-46-7	1,4-Dichlorobenzene	ND	ug / L	2	1		04-03-03	04-08-03

Assaigal Analytical Laboratories, Inc.

Certificate of Analysis

Client: SAFETY KLEEN

Project: PESCO #1, #2

Order: 0303521 SAF03

Receipt: 03-26-03

Sample: PESCO #2

Collected: 03-20-03 0:00:00 By: RE

Matrix:

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0303521-02A SW846 3510B/8270B SVOCs by GC/MS By: DS										
X03107	XG.2003.591.2	95-95-4	2,4,5-Trichlorophenol	ND	ug / L	2	5		04-03-03	04-08-03
X03107	XG.2003.591.2	88-06-2	2,4,6-Trichlorophenol	ND	ug / L	2	5		04-03-03	04-08-03
X03107	XG.2003.591.2	121-14-2	2,4-Dinitrotoluene	ND	ug / L	2	5		04-03-03	04-08-03
X03107	XG.2003.591.2	95-48-7	2-Methylphenol	ND	ug / L	2	1		04-03-03	04-08-03
X03107	XG.2003.591.2		3+4 Methylphenol	ND	ug / L	2	1		04-03-03	04-08-03
X03107	XG.2003.591.2	118-74-1	Hexachlorobenzene	ND	ug / L	2	10		04-03-03	04-08-03
X03107	XG.2003.591.2	87-68-3	Hexachlorobutadiene	ND	ug / L	2	10		04-03-03	04-08-03
X03107	XG.2003.591.2	67-72-1	Hexachloroethane	ND	ug / L	2	5		04-03-03	04-08-03
X03107	XG.2003.591.2	98-95-3	Nitrobenzene	ND	ug / L	2	1		04-03-03	04-08-03
X03107	XG.2003.591.2	87-86-5	Pentachlorophenol	ND	ug / L	2	10		04-03-03	04-08-03
X03107	XG.2003.591.2	110-86-1	Pyridine	ND	ug / L	2	10		04-03-03	04-08-03
0303521-02A SW846 7470 Mercury by CVA4 By: JRE										
M03411	MT.2003.379.53	7439-97-6	Mercury	0.0249	mg / L	10	0.0002		04-02-03	04-02-03
0303521-02A SW846 8260B Purgeable VOCs by GC/MS By: JAA										
X03145	XG.2003.615.1	75-34-3	1,1 Dichloroethane	ND	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	107-06-2	1,2 Dichloroethane (EDC)	ND	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	78-93-3	2-Butanone (MEK)	ND	ug / L	10	5	23	04-03-03	04-03-03
X03145	XG.2003.615.1	71-43-2	Benzene	15	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	56-23-5	Carbon tetrachloride	ND	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	108-90-7	Chlorobenzene	ND	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	67-66-3	Chloroform	ND	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	127-18-4	Tetrachloroethene (PCE)	ND	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	79-01-6	Trichloroethene	ND	ug / L	10	1	23	04-03-03	04-03-03
X03145	XG.2003.615.1	75-01-4	Vinyl chloride	ND	ug / L	10	5	23	04-03-03	04-03-03
0303521-02A SW846 Sect. 7.3 By: DAH										
W03114	WC.2003.777.7	57-12-5	Cyanide, Reactive	ND	mg / Kg	1	250		03-31-03	04-01-03
W03114	WC.2003.776.6		Sulfide, Reactive	ND	mg / Kg	1	500		03-31-03	03-31-03

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 footnotes will appear below.

1 Several surrogate recoveries were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

2 Sample pH at the time of analysis was greater than 2, exceeding QA/QC criteria.

3 Sample was received with headspace.



**THE REPRODUCTION OF
THE
FOLLOWING
DOCUMENT (S)
CANNOT BE IMPROVED
DUE TO
THE CONDITION OF
THE ORIGINAL**

RECEIVED

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

JUL 21 2003

State of New Mexico
Energy Minerals and Natural Resources
Environmental Bureau
Oil Conservation Division
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator AMERICAN ENERGY SERVICES 5. Originating Site FARMINGTON YARD
2. Management Facility Destination KEY ENERGY DISPOSAL	7. Transporter KEY
3. Address of Facility Operator #345 CR 3500 AZTEC NM	8. State NM
7. Location of Material (Street Address or ULSTR) 708 S. Tucker, Farmington, NM, 87401	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

CITY WATER MIXED WITH SMALL AMOUNTS OF HCL GENERATED AT THE ACID LOADING STATION.
IF REQUIRED WASTE WILL BE NEUTRALIZED BEFORE TRANSPORT

MSDS INFO ATTACHED

Estimated Volume < 80 BBLs PER MONTH cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Michael Talovich TITLE: FACILITY MANAGER DATE: 7-10-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Denny Feut TITLE: Enviro/Engt DATE: 7/14/03

APPROVED BY: Monty Gilly TITLE: Environmental Biologist DATE: 7-21-03

072103-1



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address <i>American Energy Services 708 S Tucker Farmington NM 87401</i>	2. Destination Name: <i>Amy Energy Services 5651 US Hwy 64 Farmington NM 87401</i>
3. Originating Site (name): <i>American Energy Services 708 S. Tucker Farmington NM 87401</i> attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste <i>Water is from overflow when loading water and Acid at Acid Rock. Water is then pumped in to waste water tank and be use in loading of Acid.</i>	

I, *Ralph Scarberry* representative for :
Print Name

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

☐ EXEMPT oilfield waste

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

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

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

☒ MSDS Information

☐ Other (description)

☐ RCRA Hazardous Waste Analysis

☐ Chain of Custody

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

Name (Original Signature): *Ralph Scarberry*

Title: *Operation Manager*

Date: *7 July 2003*



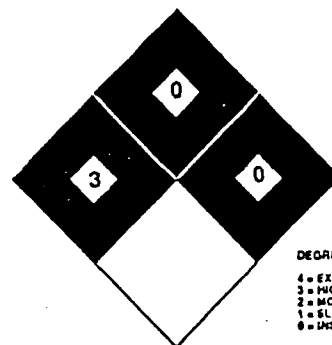
HYDROCHLORIC ACID

MATERIAL SAFETY DATA BULLETIN (CONFORMS TO CFR 1910, 1200g AMENDED)

REAGENT CHEMICAL
& RESEARCH INC.

124 River Road
Middlesex, New Jersey 08846

Health
(Blue)



NFPA Designation 704

Flammability
(Red)

Reactivity
(Yellow)

DEGREE OF HAZARD
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

Special
Hazard

EMERGENCY PHONE
800-231-1807 - 24 HOUR
800-424-9300 - (CHEMTREC)

EMERGENCY RESPONSE GUIDEBOOK NUMBER
ID# 1789, Guide 60

PRODUCT NAME
Hydrochloric Acid, 20° or 22° Baumé

PRODUCT CAS NUMBER
7647-01-0

CHEMICAL FORMULA
HCl

TRADE NAME & SYNONYMS
Hydrochloric Acid - Muriatic Acid

TRANSPORTATION INFORMATION

Proper Shipping Name - Hydrochloric Acid
Hazard Class - Corrosive Liquid
UN/NA Identification - UN1789
Hazard Class - 8
Packaging Group - II
HM 181 Poison? - NO
Reportable Quantity - RQ 5000 lbs.
DOT Labels Required - Corrosive
HMIS Labeling - 3-0-0-X

SARA TITLE III ☒ Yes
Section 312 ☒ Yes Section 313 ☒ Yes

RCRA WASTE NUMBER
D002

CHEMICAL FAMILY
Inorganic Acid

HAZARDOUS INGREDIENTS

COMPONENTS	%	THRESHOLD LIMIT VALUE
Hydrogen Chloride	31.45 - 37.0	Ceiling-5.0 ppm

PHYSICAL DATA

APPEARANCE (Solid, Liquid, Gas) Liquid @ 20° C, 1 atm	MOLECULAR WEIGHT 36.5	FREEZING TEMP. -53° C; -63° F	SPECIFIC GRAVITY 1.1600 - 1.1884
VAPOR DENSITY (AIR =1) N.A.	COLOR Clear/Slightly Yellow	BULK DENSITY 9.671-9.908 lb/gal	BOILING POINT 110° C/230° F
VAPOR PRESSURE 50 - 60 mm Hg @ 20° C	SOLUBILITY (Water) Very Soluble	ODOR Sharp, Pungent, Irritant	% VOLATILE BY VOL. N.A.

FIRE & EXPLOSION DATA

FLASH POINT (Method Used) N.A.	FLAMMABLE LIMIT Non-flammable	EXTINGUISHING MEDIA N.A.
-----------------------------------	----------------------------------	-----------------------------

SPECIAL FIRE FIGHTING PROCEDURES, UNUSUAL FIRE OR EXPLOSION HAZARDS

Non-flammable, but Hydrochloric Acid reacts with all metals, except gold and platinum, with rapid evolution of Hydrogen which is flammable and explosive in air. Firefighters exposed to Hydrochloric Acid vapors should wear Scott Air-Pak or equivalent. Hydrogen Chloride vapors are extremely irritating to the respiratory tract and may cause breathing difficulty.

TOXICOLOGY

GENERAL

Hydrogen Chloride, both as a gas and in a solution as Hydrochloric Acid, is a corrosive substance and can cause severe and painful burns on contact with any part of the body or if taken internally. The mucous membranes of the eyes and the upper respiratory tract are especially susceptible to the irritating effects of high atmospheric concentrations of Hydrogen Chloride. The gas or vapor is so penetrating and pungent that when high concentrations do occur those exposed should immediately leave the contaminated area.

ROUTES OF ENTRY

Inhalation of the gas or mist; ingestion, eye and skin contact with both the gas and/or mist are possible routes of entry.

INGESTION

When concentrated Hydrochloric Acid is swallowed, it causes severe burns of the mucous membranes of the mouth, esophagus and stomach. The lips and mouth usually turn white, and later brown. There is pain in the throat and stomach, difficulty in swallowing, intense thirst, nausea and vomiting, followed by diarrhea and, in severe cases, by collapse and unconsciousness.

EYE CONTACT

Contact of the eyes with Hydrogen Chloride, either as a gas or in solution, rapidly causes severe irritation and painful burns of the eyes and eyelids. If the acid is not quickly removed by thorough irrigation with water, there may be prolonged or permanent visual impairment or total loss of sight. Wash the affected area for 15 minutes with large amounts of water.

SKIN CONTACT

Concentrated solutions are destructive to clothing and on contact with skin, cause severe burns unless promptly washed off. Repeated skin contact with dilute solutions may lead to the development of dermatitis. Exposure to the concentrated vapor of Anhydrous Hydrogen Chloride may also result in burns or dermatitis.

INHALATION

Inhalation of excessive concentrations of Hydrogen Chloride vapors immediately produces severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, and a choking sensation. Reactions encountered in man have usually been limited to inflammation and occasional ulceration of the nose, throat and larynx. If inhaled deeply, edema of the lungs may occur.

TOXICOLOGY DATA

(a) Toxicity:

Inhalation, human LC₅₀: 1300 ppm/30 min.
Oral, rabbit LD₅₀: 900 mg/Kg.

(b) Mutagenic Effects:

Chromosome damage, Inhalation: 100 ppm/24 hours
Chromosome damage, Oral: 100 ppm
Cytogenic effects, Parenteral: 20 mg

(c) OSHA Standard: Air: TLV 5 ppm

Air: TLV 7 mg/cubic meter

(d) ACGH Limit Values: Hydrogen Chloride TWA-STEL 5 ppm

TWA-STEL 7 mg./cu. meter

(e) TOSCA: Reported in TOSCA Inventory in 1980.

NOTE: The sources of the toxicology data are:

1. NIOSH-Registry of Toxic Effects of Chemical Substances 1986 Volumes I-V.
2. Patty-Industrial Hygiene and Toxicology Volume 2-A, B, C.
3. American Conference of Governmental Industrial Hygienists 1988.

The above quoted data are an abstract only of the complete information disclosed in the source documents. Reagent will supply, upon request, photos of the complete source documents referred to herein. Please phone the nearest Reagent Sales Office.

TOXICOLOGY DATA

CARCINOGENIC STATEMENT:

National Toxicology Register ☒ No
IARC Monograph ☒ No

OSHA Register ☒ No
ACGIH 1987-88 ☒ No

STABILITY

GENERAL

Hydrochloric Acid is a stable compound and forms an azeotrope that boils at 108.6°C. or 227.5°F. at one atmosphere and contains 20.22% Hydrogen Chloride.

The gaseous form, Hydrogen Chloride, begins dissociation at 1500°C. or 2732°F.

CHEMICAL REACTIVITY

GENERAL

Hydrochloric Acid is chemically stable when properly contained and handled. It is a strong mineral acid and reacts with many metals and metal oxides and hydroxides to form the equivalent metal chloride. It reacts with zeolites and other silicious compounds to form Hydrosilicic Acid; it reacts with carbonates to form Carbon Dioxide and Water. It is oxidized by Oxygen or electrolysis to form Chlorine, a lethal, poisonous gas. It reacts with alkaline compounds to form a neutral salt. It is a hydrolyzing agent for carbohydrates, esters and other compounds.

The reaction of Hydrochloric Acid with most metals will produce Hydrogen, an explosive, flammable gas.

Violent reactions will result when Hydrochloric Acid reacts with acetic anhydride, 2-aminoethanol, ammonium hydroxide, calcium phosphide, chlorosulfonic acid, ethylene diamine, ethylene imine, oleum (fuming sulfuric acid), perchloric acid, beta propiolactone, propylene oxide, sodium hydroxide, sulfuric acid, uranium phosphide and vinyl acetate. This listing is not all-inclusive.

FIRST AID

GENERAL

If a known exposure occurs or is suspected, immediately initiate the recommended procedures below. Simultaneously contact a physician, the nearest hospital, or the nearest Poison Control Center. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms and follow the advice given. For additional information, call, day or night. Reagent (800) 231-1807 or Chemtrec (800) 424-9300.

INGESTION

DO NOT induce vomiting. Immediately give large quantities of water or milk, if available. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center immediately.

EYE CONTACT

Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue the flushing for an additional 15 minutes if the physician is not immediately available.

SKIN CONTACT

Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for at least 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice immediately.

INHALATION

Remove from contaminated atmosphere. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the use of a bag-mask respirator, or a manually-triggered, oxygen supply capable of delivering 1 liter/second or more. If the victim is breathing, oxygen may be administered from a demand-type or continuous-flow inhalator, preferably with a physician's advice. Contact a physician immediately.

ADDITIONAL REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT

This substance is listed on the Toxic Substances Control Act inventory.

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT, TITLE III

HAZARD CATEGORIES: HEALTH: Immediate (Acute) PHYSICAL: NONE
Delayed (Chronic)

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW

Extremely Hazardous Substance - Threshold Planning Quantity: None Established

IS THIS PRODUCT REGULATED UNDER 1990 CLEAN AIR ACT? ☐ YES ☒ NO

DOES THIS PRODUCT CONTAIN, OR IS MANUFACTURED WITH, CFC's? ☐ YES ☒ NO

SPILL, DISCHARGE OR DISPOSAL

GENERAL

Spills or discharges into the environment involving large quantities of Hydrochloric Acid should be controlled and cleaned-up according to a pre-determined affirmative, written Spill Prevention and Control Program. For assistance in developing a SPCP contact your nearest Reagent Sales Office.

PERSONNEL

All personnel involved in a spill clean-up should follow the recommendations and practices set forth below (refer to Industrial Hygiene).

PROCEDURE

Spills should be handled immediately by neutralization and dilution of the spilled Product by the use of Soda Ash (Sodium Carbonate), Lime (Calcium Hydroxide) or Limestone (Calcium Carbonate) with large amounts of water. For an interior (inside a closed space) spill be aware that the use of Soda Ash, Lime and Limestone will evolve Carbon Dioxide and that ample ventilation be provided.

DISPOSAL

Under Federal RCRA, it is the responsibility of the user of Products to determine, at the time of disposal, whether the Product falls under the RCRA as a hazardous waste. This is because Product uses, transformations, synthesis, mixtures, etc. may render the resulting end-product hazardous.

INDUSTRIAL HYGIENE

EYE CONTACT

Chemical goggles and full face shields must be worn at all times by personnel exposed to or handling Hydrochloric Acid.

SKIN CONTACT

Impervious clothing, gloves, footwear and head gear must be worn at all times by Personnel exposed to or handling Hydrochloric Acid.

INHALATION

The use of a NIOSH approved full face piece cartridge respirator or a Scott Air-Pak should be used by all personnel exposed to or handling Hydrochloric Acid.

RESPIRATOR SELECTION:

100 ppm concentration — chemical cartridge respirator with Acid gas cartridge with full face piece.

Escape — self contained breathing apparatus.

BIBLIOGRAPHY SOURCE REFERENCE

1. NIOSH-RTECS—Registry of Toxic Effects of Chemical Substances Volumes I-V — 1986.
 2. American Conference of Governmental Industrial Hygienist — 1988.
 3. Dangerous Properties of Industrial Material, SAX — Edition Six.
 4. Handbook of Toxic and Hazardous Chemicals and Carcinogens, Second Edition, Marshall Sittig.
 5. Industrial Hygiene and Toxicology, Patty — Volumes I-II ABC.
-

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REVISED FEBRUARY 1994

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

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Form C-138
Revised March 17, 1999

APR 09 2003

Submit Original
Plus 1 Copy
to Appropriate
District Office

OIL CONSERVATION
DIVISION

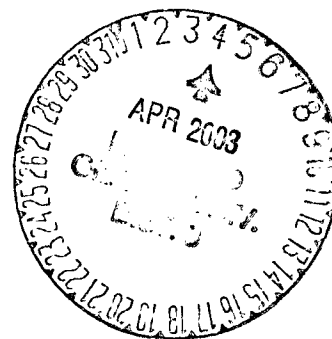
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator WILLIAMS FIELD SERVICES
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site MILAGRO GAS PLANT
3. Address of Facility Operator #345 CR 3500 AZTEC NM	6. Transporter KEY
7. Location of Material (Street Address or ULSTR) 190 CR 4900 BLOOMFIELD, NM, 87413	8. State 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
APR 09 2003
Environmental Bureau
Oil Conservation Division

BRIEF DESCRIPTION OF MATERIAL: WASTEWATER FROM NATURAL GAS PROCESSING.

New Analytical for 2003 Last filed 11-27-01



Estimated Volume 1,200 BBLS per month ___cy Known Volume (to be entered by the operator at the end of the haul) ___cy

SIGNATURE Michael Talovich TITLE: FACILITY MANAGER DATE: 4-4-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Gerry Fount TITLE: Enviro/Eng DATE: 4/8/03
APPROVED BY: Michael Talovich TITLE: Environmental Geology DATE: 4/9/03

040903-1



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Williams Field Services 188 CR 4900 Bloomfield, NM 87413	2. Destination Name: Key Energy Disposal Facility 345 CR 3500 Aztec, NM 87410
3. Originating Site (name): Milagro Gas Plant 190 CR 4900 Bloomfield, NM 87413 attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Waste Water from Evaporation Ponds	

I, Michael K. Lane representative for :
Print Name

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

EXEMPT oilfield waste

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

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

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

MSDS Information

Other (description)

X RCRA Hazardous Waste Analysis

Chain of Custody

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

Name (Original Signature):

Title: Environmental Specialist

Date: 3/31/03

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072
March 18, 2003

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Michael Lane
Williams Field Services
188 County Road 4900
Bloomfield, NM 87413

TEL: (505) 632-4625

FAX (505) 632-4781

RE: Milagro Gas Plant

Order No.: 0302022

Dear Michael Lane:

iiná bá, Ltd. received 1 sample on 2/24/2003 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,



David Cox

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

iiná bá, Ltd.

Date: 18-Mar-03

CLIENT: Williams Field Services

Project: Milagro Gas Plant

Lab Order: 0302022

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 18-Mar-03

CLIENT: Williams Field Services
Work Order: 0302022
Project: Milagro Gas Plant
Lab ID: 0302022-001B

Client Sample Info: Milagro Gas Plant
Client Sample ID: Waste Water Ponds
Collection Date: 2/24/2003 9:55:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP LEACHED						
		SW7470		(SW7470)		Analyst: DJC
Mercury	ND	0.0020		mg/L	1	3/10/2003
ICP METALS, TCLP LEACHED						
		SW1311/6010B		(SW3005A)		Analyst: DJC
Arsenic	ND	0.042		mg/L	5	3/6/2003
Barium	0.021	0.007		mg/L	5	3/6/2003
Cadmium	ND	0.206		mg/L	5	3/6/2003
Chromium	0.991	0.023		mg/L	5	3/6/2003
Lead	ND	0.016		mg/L	5	3/6/2003
Selenium	ND	0.044		mg/L	5	3/6/2003
Silver	ND	0.004		mg/L	5	3/6/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 1 of 1

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

iina ba, Ltd.

Sample Receipt Checklist

Client Name: WIL1001

Date and Time Received:

2/24/2003

Work Order Number: 0302022

Received by: DWC

Checklist completed by:

J Moore
Signature

2/24/03
Date

Reviewed by:

DZ
Initials

2/24/03
Date

Matrix:

Carrier name: Myke Lane

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 ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted? _____ Checked by: _____

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: _____

iiiná bá, Ltd.

Date: 18-Mar-03

CLIENT: Williams Field Services
Work Order: 0302022
Project: Milagro Gas Plant

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_HG

Sample ID	MBLK_031003	SampleType: MBLK	TestCode: 1311_HG	Units: mg/L	Prep Date: 3/10/2003	Run ID: AA_030310A					
Client ID: ZZZZZ	Batch ID: 332	TestNo: SW7470	(SW7470)	Analysis Date: 3/10/2003	SeqNo: 62228						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00100									

Sample ID	LCS_031003	SampleType: LCS	TestCode: 1311_HG	Units: mg/L	Prep Date: 3/10/2003	Run ID: AA_030310A					
Client ID: ZZZZZ		Batch ID: 332	TestNo: SW7470	(SW7470)	Analysis Date: 3/10/2003	SeqNo: 62231					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00891	0.00100	0.01	0	89.1	70	130	0	0	0	

Sample ID	0302022-001BMS	SampleType: MS	TestCode: 1311_HG	Units: mg/L	Prep Date: 3/10/2003	Run ID: AA_030310A					
Client ID:	Waste Water Ponds	Batch ID: 332	TestNo: SW7470	(SW7470)	Analysis Date: 3/10/2003	SeqNo: 62234					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.01995	0.00200	0.025	0	79.8	70	130	0	0	0	

Sample ID	0302022-001BMSD	SampleType: MSD	TestCode: 1311_HG	Units: mg/L	Prep Date: 3/10/2003	Run ID: AA_030310A					
Client ID:	Waste Water Ponds	Batch ID: 332	TestNo: SW7470	(SW7470)	Analysis Date: 3/10/2003	SeqNo: 62235					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0211	0.00200	0.025	0	84.4	70	130	0.01995	5.60	20	

Sample ID	0302022-001BD	SampleType: DUP	TestCode: 1311_HG	Units: mg/L	Prep Date: 3/10/2003	Run ID: AA_030310A					
Client ID:	Waste Water Ponds	Batch ID: 332	TestNo: SW7470	(SW7470)	Analysis Date: 3/10/2003	SeqNo: 62233					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00200	0	0	0	0	0	0	0	15	

Qualifiers:

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Williams Field Services
Work Order: 0302022
Project: Milagro Gas Plant

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_HG

Sample ID	CCV1_031003	SampType:	CCV	TestCode:	1311_HG	Units:	mg/L	Prep Date:		Run ID:	AA_030310A		
Client ID:	ZZZZZ	Batch ID:	332	TestNo:	SW7470			Analysis Date:	3/10/2003	SeqNo:	62229		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00947		0.00100	0.01	0	94.7	80	120	0	0	0	

Sample ID	CCV2_031003	SampType:	CCV	TestCode:	1311_HG	Units:	mg/L	Prep Date:		Run ID:	AA_030310A		
Client ID:	ZZZZZ	Batch ID:	332	TestNo:	SW7470			Analysis Date:	3/10/2003	SeqNo:	62236		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00885		0.00100	0.01	0	88.5	80	120	0	0	0	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	Page 2 of 5

CLIENT: Williams Field Services
 Work Order: 0302022
 Project: Milagro Gas Plant

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID	MBLK_030303	SampleType: MBLK	TestCode: 1311_M	Units: mg/L	Prep Date: 3/3/2003	Run ID: ICP_1_030306A						
Client ID:	ZZZZZ	Batch ID: 331	TestNo: SW1311/6010 (SW3005A)		Analysis Date: 3/6/2003	SeqNo: 62194						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.0420										
Barium	ND	0.00700										
Cadmium	ND	0.206										
Chromium	ND	0.0230										
Lead	ND	0.0155										
Selenium	ND	0.0440										
Silver	ND	0.00350										

Sample ID	LCS_030303	SampleType: LCS	TestCode: 1311_M	Units: mg/L	Prep Date: 3/3/2003	Run ID: ICP_1_030306A						
Client ID:	ZZZZZ	Batch ID: 331	TestNo: SW1311/6010 (SW3005A)		Analysis Date: 3/6/2003	SeqNo: 62195						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.1371	0.0420	0.1325	0	103	75	125	0	0			
Barium	1.319	0.00700	1.325	0	99.6	75	125	0	0			
Cadmium	0.0661	0.206	0.0663	0	99.7	75	125	0	0			
Chromium	0.132	0.0230	0.1325	0	99.6	75	125	0	0			
Lead	0.1318	0.0155	0.1325	0	99.5	75	125	0	0			
Selenium	0.0678	0.0440	0.0663	0	102	75	125	0	0			
Silver	0.1323	0.00350	0.1325	0	99.8	75	125	0	0			

Sample ID	0302022-001BMS	SampleType: MS	TestCode: 1311_M	Units: mg/L	Prep Date: 3/3/2003	Run ID: ICP_1_030306A						
Client ID:	Waste Water Ponds	Batch ID: 331	TestNo: SW1311/6010 (SW3005A)		Analysis Date: 3/6/2003	SeqNo: 62198						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.6285	0.0420	0.5995	0	105	75	125	0	0			
Barium	6.21	0.00700	5.997	0.021	103	75	125	0	0			
Cadmium	0.307	0.206	0.3	0	102	75	125	0	0			
Chromium	1.617	0.0230	0.5995	0.991	104	75	125	0	0			
Lead	0.615	0.0155	0.5995	0	103	75	125	0	0			
Selenium	0.3235	0.0440	0.3	0	108	75	125	0	0			
Silver	0.62	0.00350	0.5995	0	103	75	125	0	0			

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

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 Page 3 of 5

CLIENT: Williams Field Services
 Work Order: 0302022
 Project: Milagro Gas Plant

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID	0302022-001BD	SampType: DUP	TestCode: 1311_M	Units: mg/L	Prep Date: 3/3/2003	Run ID: ICP_1_030306A					
Client ID:	Waste Water Ponds	Batch ID: 331	TestNo: SW1311/6010 (SW3005A)		Analysis Date: 3/6/2003	SeqNo: 62197					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0420	0	0	0	0	0	0	0	0	20
Barium	0.0225	0.00700	0	0	0	0	0	0.021	6.90	0	20
Cadmium	ND	0.206	0	0	0	0	0	0	0	0	20
Chromium	1.027	0.0230	0	0	0	0	0	0.991	3.57	0	20
Lead	ND	0.0155	0	0	0	0	0	0	0	0	20
Selenium	ND	0.0440	0	0	0	0	0	0	0	0	20
Silver	ND	0.00350	0	0	0	0	0	0	0	0	20

Sample ID	CCB1_030306	SampType: CCB	TestCode: 1311_M	Units: mg/L	Prep Date: 3/3/2003	Run ID: ICP_1_030306A					
Client ID: ZZZZZ		Batch ID: 331	TestNo: SW1311/6010		Analysis Date: 3/6/2003	SeqNo: 62191					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0420	0	0	0	0	0	0	0	0	
Barium	ND	0.00700	0	0	0	0	0	0	0	0	
Cadmium	ND	0.206	0	0	0	0	0	0	0	0	
Chromium	ND	0.0230	0	0	0	0	0	0	0	0	
Lead	ND	0.0155	0	0	0	0	0	0	0	0	
Selenium	ND	0.0440	0	0	0	0	0	0	0	0	
Silver	ND	0.00350	0	0	0	0	0	0	0	0	

Sample ID	CCB2_030306	SampType: CCB	TestCode: 1311_M	Units: mg/L	Prep Date:	Run ID: ICP_1_030306A					
Client ID: ZZZZZ		Batch ID: 331	TestNo: SW1311/6010		Analysis Date: 3/6/2003	SeqNo: 62199					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0420	0	0	0	0	0	0	0	0	
Barium	ND	0.00700	0	0	0	0	0	0	0	0	
Cadmium	ND	0.206	0	0	0	0	0	0	0	0	
Chromium	ND	0.0230	0	0	0	0	0	0	0	0	
Lead	ND	0.0155	0	0	0	0	0	0	0	0	
Selenium	ND	0.0440	0	0	0	0	0	0	0	0	
Silver	ND	0.00350	0	0	0	0	0	0	0	0	

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

CLIENT: Williams Field Services
 Work Order: 0302022
 Project: Milagro Gas Plant

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID	CCV1_030306	SampType: CCV	TestCode: 1311_M	Units: mg/L	Prep Date:	Run ID: ICP_1_030306A					
Client ID:	ZZZZZ	Batch ID: 331	TestNo: SW1311/6010		Analysis Date: 3/6/2003	SeqNo: 62192					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.2069	0.0420	0.2045	0	101	90	110	0	0		
Barium	2.05	0.00700	2.045	0	100	90	110	0	0		
Cadmium	0.1038	0.206	0.1023	0	101	90	110	0	0		
Chromium	0.2063	0.0230	0.2045	0	101	90	110	0	0		
Lead	0.2088	0.0155	0.2045	0	102	90	110	0	0		
Selenium	0.1044	0.0440	0.1023	0	102	90	110	0	0		
Silver	0.2089	0.00350	0.2045	0	102	90	110	0	0		

Sample ID	CCV2_030306	SampType: CCV	TestCode: 1311_M	Units: mg/L	Prep Date:	Run ID: ICP_1_030306A					
Client ID:	ZZZZZ	Batch ID: 331	TestNo: SW1311/6010		Analysis Date: 3/6/2003	SeqNo: 62200					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.2141	0.0420	0.2045	0	105	90	110	0	0		
Barium	2.116	0.00700	2.045	0	103	90	110	0	0		
Cadmium	0.1054	0.206	0.1023	0	103	90	110	0	0		
Chromium	0.2104	0.0230	0.2045	0	103	90	110	0	0		
Lead	0.2106	0.0155	0.2045	0	103	90	110	0	0		
Selenium	0.1053	0.0440	0.1023	0	103	90	110	0	0		
Silver	0.2143	0.00350	0.2045	0	105	90	110	0	0		

Sample ID	ICV_030306	SampType: ICV	TestCode: 1311_M	Units: mg/L	Prep Date:	Run ID: ICP_1_030306A					
Client ID:	ZZZZZ	Batch ID: 331	TestNo: SW1311/6010		Analysis Date: 3/6/2003	SeqNo: 62193					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.5105	0.0420	0.5083	0	100	90	110	0	0		
Barium	0.4996	0.00700	0.5067	0	98.6	90	110	0	0		
Cadmium	0.5088	0.206	0.5083	0	100	90	110	0	0		
Chromium	0.5051	0.0230	0.5083	0	99.4	90	110	0	0		
Lead	0.5022	0.0155	0.5083	0	98.8	90	110	0	0		
Selenium	0.5097	0.0440	0.5083	0	100	90	110	0	0		
Silver	0.2591	0.00350	0.2534	0	102	90	110	0	0		

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

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

TestAmerica

INCORPORATED

3/ 5/03

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name:
Project Number: .
Laboratory Project Number: 321566.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Page 1

Sample Identification	Lab Number	Collection Date
0302022-001C,D	03-A28261	2/24/03

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L. Connor

Report Date: 3/ 5/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv..
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 02008

TestAmerica

INCORPORATED

ANALYTICAL REPORT

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 03-A28261
Sample ID: 0302022-001C,D
Sample Type: Liquid waste
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 2/24/03
Time Collected: 9:55
Date Received: 2/26/03
Time Received: 9:00
Page: 1

Milagro Gas Plant, Waste Water Pond *3/18/03*

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
GENERAL CHEMISTRY PARAMETERS										
Reactive Cyanide	ND	mg/kg	50.0	50.0	20	2/26/03	22:00	S. Prayter	SW-846	4130
Reactive Sulfide	ND	mg/kg	100.	100.	20	2/26/03	22:00	S. Prayter	SW-846	4130
Ignitability	NOT IGNITABLE UP TO 200F					3/ 5/03	9:50	T. Beverly	1010M	8703
Corrosivity	Not Corrosive					2/27/03	13:50	T. Beverly	1110	5786

TCLP Results

Analyte	Result	Units	Matrix Spike		Date	Time	Analyst	Method	QC Batch
			Reg Limit	Recovery (%)					
Benzene	< 0.0200	mg/l	0.5	98	2/28/03	16:41	J.Haley	8260	6774
Carbon tetrachloride	< 0.0200	mg/l	0.5	106	2/28/03	16:41	J.Haley	8260	6774
Chlorobenzene	< 0.0200	mg/l	100	98	2/28/03	16:41	J.Haley	8260	6774
Chloroform	< 0.0200	mg/l	6.0	94	2/28/03	16:41	J.Haley	8260	6774
1,2-Dichloroethane	< 0.0200	mg/l	0.5	96	2/28/03	16:41	J.Haley	8260	6774
1,1-Dichloroethene	< 0.0200	mg/l	0.7	88	2/28/03	16:41	J.Haley	8260	6774
Methylethylketone	< 0.100	mg/l	200	89	2/28/03	16:41	J.Haley	8260	6774
Tetrachloroethene	< 0.0200	mg/l	0.7	98	2/28/03	16:41	J.Haley	8260	6774
Trichloroethene	< 0.0200	mg/l	0.5	94	2/28/03	16:41	J.Haley	8260	6774
Vinyl Chloride	< 0.0200	mg/l	0.2	100	2/28/03	16:41	J.Haley	8260	6774
Cresols	< 0.0100	mg/l	200	73	3/ 3/03	16:29	R. Beard	8270	8736
1,4-Dichlorobenzene	< 0.0100	mg/l	7.5	68	3/ 3/03	16:29	R. Beard	8270	8736

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A28261

Sample ID: 0302022-001C,D

Project:

Page 2

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike		Date	Time	Analyst	Method	QC Batch
				Recovery (%)						
2,4-Dinitrotoluene	< 0.0100	mg/l	0.13	88		3/ 3/03	16:29	R. Beard	8270	8736
Hexachlorobenzene	< 0.0100	mg/l	0.13	62		3/ 3/03	16:29	R. Beard	8270	8736
Hexachlor-1,3-butadien	< 0.0100	mg/l	0.5	66		3/ 3/03	16:29	R. Beard	8270	8736
Hexachloroethane	< 0.0100	mg/l	3.0	66		3/ 3/03	16:29	R. Beard	8270	8736
Nitrobenzene	< 0.0100	mg/l	2.0	72		3/ 3/03	16:29	R. Beard	8270	8736
Pentachlorophenol	< 0.0100	mg/l	100	78		3/ 3/03	16:29	R. Beard	8270	8736
Pyridine	< 0.0100	mg/l	5.0	40		3/ 3/03	16:29	R. Beard	8270	8736
2,4,5-Trichlorophenol	< 0.0100	mg/l	400	88		3/ 3/03	16:29	R. Beard	8270	8736
2,4,6-Trichlorophenol	< 0.0100	mg/l	2.0	86		3/ 3/03	16:29	R. Beard	8270	8736
TCLP Extraction	Initiated					2/26/03	16:00	B. Powell	1311	4417
Zero Headspace Extraction	Initiated					2/26/03	16:00	B. Powell	1311	4417

Sample Extraction Data

Parameter	Wt/Vol		Date	Time	Analyst	Method
	Extracted	Extract Vol				
TCLP BNA's	500. ml	1.0 ml	3/ 3/03		M. Ricke	3510

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	73. - 133.
VOA Surr Toluene-d8	100.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.
BNA Surr-Nitrobenzene-d5	74.	40. - 127.
BNA Surr-2-Fluorobiphenyl	70.	42. - 113.
BNA Surr-Terphenyl-d14	70.	41. - 129.
BNA Surr-Phenol-d5	86. #	1. - 75.
BNA Surr-2-Fluorophenol	46.	3. - 97.
BNA Surr-2,4,6-Tribromophenol	116.	35. - 174.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A28261

Sample ID: 0302022-001C,D

Project:

Page 3

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

Flash point/ignitability reported to the nearest 10 deg F.

All results reported on a wet weight basis.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 1

Laboratory Receipt Date: 2/26/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
*****	*****	*****	*****	*****	*****	*****	*****	*****
VOA PARAMETERS								
Benzene	mg/l	< 0.00200	0.490	0.500	98	78. - 132.	6774	03A27905
Carbon tetrachloride	mg/l	< 0.00200	0.530	0.500	106	64. - 146.	6774	03A27905
Chlorobenzene	mg/l	0.00200	0.490	0.500	98	79. - 124.	6774	03A27905
Chloroform	mg/l	< 0.00200	0.470	0.500	94	73. - 133.	6774	03A27905
1,2-Dichloroethane	mg/l	< 0.00200	0.480	0.500	96	70. - 140.	6774	03A27905
1,1-Dichloroethene	mg/l	< 0.00200	0.440	0.500	88	68. - 141.	6774	03A27905
Methylethylketone	mg/l	< 0.0100	2.24	2.50	90	69. - 142.	6774	03A27905
Tetrachloroethene	mg/l	0.00700	0.490	0.500	97	72. - 136.	6774	03A27905
Trichloroethene	mg/l	0.00400	0.470	0.500	93	73. - 137.	6774	03A27905
Vinyl Chloride	mg/l	< 0.00200	0.500	0.500	100	52. - 156.	6774	03A27905

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
*****	*****	*****	*****	*****	*****	*****	*****	*****
MISC PARAMETERS								
Reactive Cyanide	mg/kg	< 50.0	336.	400.	84	10 - 120	4130	03-A28319
Reactive Cyanide	mg/kg	< 50.0	331.	400.	83	10 - 120	4130	03-A28319
Reactive Sulfide	mg/kg	< 100.	430.	400.	108	10 - 120	4130	03-A28319
Reactive Sulfide	mg/kg	< 100.	422.	400.	106	10 - 120	4130	03-A28319

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 2

Laboratory Receipt Date: 2/26/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.490	0.500	2.02	15.	6774
Carbon tetrachloride	mg/l	0.530	0.480	9.90	21.	6774
Chlorobenzene	mg/l	0.490	0.500	2.02	16.	6774
Chloroform	mg/l	0.470	0.440	6.59	20.	6774
1,2-Dichloroethane	mg/l	0.480	0.440	8.70	16.	6774
1,1-Dichloroethene	mg/l	0.440	0.480	8.70	19.	6774
Methylethylketone	mg/l	2.24	2.17	3.17	21.	6774
Tetrachloroethene	mg/l	0.490	0.510	4.00	23.	6774
Trichloroethene	mg/l	0.470	0.490	4.17	20.	6774
Vinyl Chloride	mg/l	0.500	0.540	7.69	28.	6774

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
MISC PARAMETERS						
Reactive Cyanide	mg/kg	336.	331.	1.50	20	4130
Reactive Sulfide	mg/kg	430.	422.	1.88	20	4130

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0460	92	78 - 127	6774
Carbon tetrachloride	mg/l	0.0500	0.0430	86	69 - 132	6774

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 3

Laboratory Receipt Date: 2/26/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Chlorobenzene	mg/l	0.0500	0.0470	94	81 - 120	6774
Chloroform	mg/l	0.0500	0.0420	84	77 - 125	6774
1,2-Dichloroethane	mg/l	0.0500	0.0420	84	71 - 135	6774
1,1-Dichloroethene	mg/l	0.0500	0.0450	90	72 - 128	6774
Methylethylketone	mg/l	0.250	0.234	94	75 - 140	6774
Tetrachloroethene	mg/l	0.0500	0.0450	90	76 - 123	6774
Trichloroethene	mg/l	0.0500	0.0440	88	78 - 125	6774
Vinyl Chloride	mg/l	0.0500	0.0510	102	61 - 140	6774

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Cresols	mg/l	0.300	0.220	73	19 - 100	8736
1,4-Dichlorobenzene	mg/l	0.100	0.0680	68	23 - 103	8736
2,4-Dinitrotoluene	mg/l	0.100	0.0880	88	24 - 136	8736
Hexachlorobenzene	mg/l	0.100	0.0620	62	22 - 78	8736
Hexachlor-1,3-butadien	mg/l	0.100	0.0660	66	18 - 106	8736
Hexachloroethane	mg/l	0.100	0.0660	66	21 - 103	8736
Nitrobenzene	mg/l	0.100	0.0720	72	30 - 117	8736
Pentachlorophenol	mg/l	0.100	0.0780	78	30 - 130	8736
Pyridine	mg/l	0.100	0.0400	40	9 - 71	8736
2,4,5-Trichlorophenol	mg/l	0.100	0.0880	88	34 - 132	8736
2,4,6-Trichlorophenol	mg/l	0.100	0.0860	86	32 - 129	8736

Project QC continued . . .

TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 4

Laboratory Receipt Date: 2/26/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Reactive Cyanide	mg/kg	200.	204.	102	10 - 120	4130
Reactive Sulfide	mg/kg	400.	392.	98	10 - 120	4130

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Benzene	< 0.00200	mg/l	6774	2/28/03	16:41
Carbon tetrachloride	< 0.00200	mg/l	6774	2/28/03	16:41
Chlorobenzene	< 0.00200	mg/l	6774	2/28/03	16:41
Chloroform	< 0.00200	mg/l	6774	2/28/03	16:41
1,2-Dichloroethane	< 0.00200	mg/l	6774	2/28/03	16:41
1,1-Dichloroethene	< 0.00200	mg/l	6774	2/28/03	16:41
Methylethylketone	< 0.0100	mg/l	6774	2/28/03	16:41
Tetrachloroethene	< 0.00200	mg/l	6774	2/28/03	16:41
Trichloroethene	0.0340	mg/l	6774	2/28/03	16:41
Vinyl Chloride	< 0.00200	mg/l	6774	2/28/03	16:41
VOA Surr 1,2-DCA-d4	88.	% Rec	6774	2/28/03	16:41
VOA Surr Toluene-d8	101.	% Rec	6774	2/28/03	16:41
VOA Surr, 4-BFB	107.	% Rec	6774	2/28/03	16:41

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					

Project QC continued . . .

TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 5

Laboratory Receipt Date: 2/26/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Cresols	< 0.0100	mg/l	8736	3/ 3/03	16:29
1,4-Dichlorobenzene	< 0.0100	mg/l	8736	3/ 3/03	16:29
2,4-Dinitrotoluene	< 0.0100	mg/l	8736	3/ 3/03	16:29
Hexachlorobenzene	< 0.0100	mg/l	8736	3/ 3/03	16:29
Hexachlor-1,3-butadien	< 0.0100	mg/l	8736	3/ 3/03	16:29
Hexachloroethane	< 0.0100	mg/l	8736	3/ 3/03	16:29
Nitrobenzene	< 0.0100	mg/l	8736	3/ 3/03	16:29
Pentachlorophenol	< 0.0100	mg/l	8736	3/ 3/03	16:29
Pyridine	< 0.0100	mg/l	8736	3/ 3/03	16:29
2,4,5-Trichlorophenol	< 0.0100	mg/l	8736	3/ 3/03	16:29
2,4,6-Trichlorophenol	< 0.0100	mg/l	8736	3/ 3/03	16:29

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Reactive Cyanide	< 50.0	mg/kg	4130	2/26/03	22:00
Reactive Sulfide	< 100.	mg/kg	4130	2/26/03	22:00

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 321566

SAMPLE NONCONFORMANCE/COC REVISION FORM

TestAmerica
INCORPORATED
Nashville Division

DATE RECEIVED: 2/25/03

ACCT NO.: ~~3024~~ 3130

SDG NUMBER: N/A

COMPANY NAME: Jingba, Ltd.

Relinquished by:	Date/Time:	Received by:	Date/Time:
<u>(W) 2-25-03 @ 16:22</u>		<u>KB</u>	<u>2/25/03 16:41</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
<u>KB</u>	<u>2/25/03 16:45</u>	<u>(W) 2-25-03 @ 16:45</u>	
Relinquished by:	Date/Time:	Received by:	Date/Time:

NONCONFORMANCE ISSUE(S):

OIL & GREASE METHOD?

METALS LIST?

TPH METHOD?

TCLP WHAT?

EDB METHOD?

HERB LIST- LONG OR SHORT?

NEED LIST OF COMPOUNDS?

RUN SOILS BY 8260 INSTEAD OF 8021?

TEMPERATURE UPON RECEIPT?

SATURDAY DELIVERY MARKED?

ICE -- OR-- NO ICE??

SAMPLES TO BE SUBCONTRACTED?

NO COC - PLEASE FAX

NO ANALYSIS REQUESTED?

DOCUMENTATION LEVEL?

OUT OF HOLDING TIME -- TEST:

OTHER:

#1) no rec'd voc's, + 3 it's non-pres- are these already rotated for
TCLP - ? #2) if so no problem - if not which tests do they want on which samples.

RESOLUTION:

They were not rotated TCLP semi-volatiles + TCLP volatiles.
should all be 1 sample not multiple samples.

PERSON CONTACTED	DATE/TIME	VIA E-MAIL or VOICEMAIL	NOTES AND/OR COMMENTS:
<u>Judy Moore</u>	<u>2/25/03</u>	<u>phone call</u>	

Revised 12/9/02

ina ba, Ltd.

612 E. Murray Drive
Farmington, NM 87401
(505) 327-1072

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

321566

Subcontractor:

Test America, Inc.
2960 Foster Creighton Drive
Nashville, TN 372040566

TEL: (800) 765-0980
FAX: (615) 726-3404

Acct #: 3130

24-Feb-03

Sample ID	Matrix	Collection Date	Bottle Type	SW1010	SW1311	SW1311/6010ESW1311/8260ESW1311/8270C	SW3005A	SW3510
0302022-001A	Aqueous	2/24/2003 10:15:00 AM	10A/10B/13/6014					
0302022-001B	Aqueous	2/24/2003 9:55:00 AM	50010B/10ES					
0302022-001C	Aqueous	2/24/2003 9:55:00 AM	1LAMGU					
0302022-001D	Aqueous	2/24/2003 9:55:00 AM	VOAHCL	1			1	1

29261

2/24/03

Comments:

Please analyze one (1) sample for Reactivity (Cyanide/Sulfide), Corrosivity, Ignitability, TCLP Semi-Volatiles and TCLP Volatiles.

Relinquished by: <i>Morse</i>	Date/Time: <i>2/24/03 4:40</i>
Relinquished by:	Date/Time:
Received by: <i>William Smith</i>	Date/Time: <i>2-26-03</i>
Received by:	Date/Time:

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

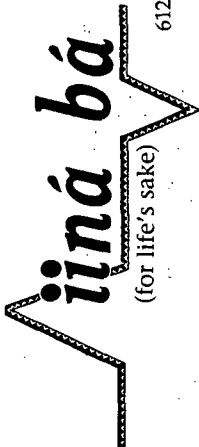
Client: FINA BA, LTD BC# 321566

Cooler Received On: 2/26/03 And Opened On: 2/26/03 By: MARVIN BLUMHOEFER

Ma Blumhofer
(Signature)

1. Temperature of Cooler when opened 3.0 Degrees Celsius
2. Were custody seals on outside of cooler?.....☒ YES ☐ NO ☐ N/A
 - a. If yes, how many, what kind and where: 1 front
 - b. Were the seals intact, signed, and dated correctly?.....☒ YES ☐ NO ☐ N/A
3. Were custody seals on containers and intact?.....☒ NO ☐ YES ☐ N/A
4. Were custody papers inside cooler?.....☒ YES ☐ NO ☐ N/A
5. Were custody papers properly filled out (ink, signed, etc)?.....☒ YES ☐ NO ☐ N/A
6. Did you sign the custody papers in the appropriate place?.....☒ YES ☐ NO ☐ N/A
7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
8. Was sufficient ice used (if appropriate)?.....☒ YES ☐ NO ☐ N/A
9. Did all bottles arrive in good condition(unbroken)?.....☒ YES ☐ NO ☐ N/A
10. Were all bottle labels complete (#, date, signed, pres, etc)?.....☒ YES ☐ NO ☐ N/A
11. Did all bottle labels and tags agree with custody papers?.....☒ YES ☐ NO ☐ N/A
12. Were correct bottles used for the analysis requested?.....☒ YES ☐ NO ☐ N/A
13. a. Were VOA vials received?.....☒ YES ☐ NO ☐ N/A
 - b. Was there any observable head space present in any VOA vial?.....☒ NO ☐ YES ☐ N/A
14. Was sufficient amount of sample sent in each bottle?.....☒ YES ☐ NO ☐ N/A
15. Were correct preservatives used?.....☒ YES ☐ NO ☐ N/A
If not, record standard ID of preservative used here _____
16. Was residual chlorine present?.....☐ NO ☐ YES ☒ N/A
17. Corrective action taken, if necessary:

See attached for resolution



CHAIN OF CUSTODY RECORD

B 1613

Page 1 of 1

Date: 2/25/03

612 E. Murray Dr. • P. O. Box 2606 • Farmington NM 87499
(505) 327-1072 • FAX: (505) 327-1496

[illegible]

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

State of New Mexico

Energy Minerals and Natural Resources

MAR 25 2003

Environmental Bureau Oil Conservation Division

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

RECEIVED

MAR 4 2003

OIL CONSERVATION
DIVISION

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒
☐ Verbal Approval Received: Yes ☐ No ☒

2. Management Facility Destination KEY ENERGY DISPOSAL

3. Address of Facility Operator #345 CR 3500 AZTEC NM

7. Location of Material (Street Address or ULSTR) 119 CR 4900
BLOOMFIELD, NM 87413

9. Circle One:

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

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

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

BRIEF DESCRIPTION OF MATERIAL: VAL VERDE GAS PLANT CLOSED DRAIN
WASTEWATER SYSTEM
WASTEWATER FROM PLANT
CHEMICAL ANALYSIS ATTACHED

Estimated Volume: 5000 BBL/YR Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Michael Talovich
Waste Management Facility Authorized Agent

TITLE: FACILITY MANAGER DATE: 3-20-03

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Denny Fount TITLE: Enviro/Eng DATE: 3/20/03

APPROVED BY: Maritza J. Kelly TITLE: Environmental Geologist DATE: 3/25/03

ADAMS - (505) 373-0101
1625 N. French Dr
Hobbs, NM 88240
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131
2040 S. Pacheco
Santa Fe, NM 87505

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

Form C-143
3/15/00

Submit to OCD
Permitted Surface
Waste Management
Facility

GENERATOR CERTIFICATE OF WASTE STATUS

1. Waste Generator Name and Address:

DUKE ENERGY FIELD SERVICES
VAL VERDE GAS PLANT
119 COUNTY ROAD 4900
BLOOMFIELD, NM

2. Permit Number (if waste generated at an OCD permitted facility)

3. Description of Waste and Generating Process:

CLOSED DRAIN WASTEWATER
FROM GAS PROCESSING PLANT

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

SAME AS #1

5. Destination (Surface Waste Management Facility):

KEY ENERGY SERVICES
SUNCO WDW #1

6. Transporter:

KEY ENERGY SERVICES
5651 US HWY 64
FARMINGTON, NM 87499

7. Estimated Volume 5000 ^{gal}/bbls/yr

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

☐ MSDS Information

☒ RCRA Hazardous Waste Analysis (With Chain of Custody).
SHOWING THAT WASTE IS NON-HAZ

☐ Other (Description)

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

☐ EXEMPT oilfield waste.

☒ NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation)

In addition, Generator certifies that nothing has been added to this exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3:1 Subpart 1403.

Generator Signature: Michael R. Betz

Date: 3-7-03

Print Name: MICHAEL R. BETZ

Title: ASSET MANAGER - VAL VERDE

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072
March 04, 2003

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Blair Armstrong
Duke Energy Field Service
370 17th St., Suite 900
Denver, CO 80202

TEL: (505) 632-6462
FAX (505) 632-6485

RE: Val Verde Plant, Bloomfield, NM

Order No.: 0302004

Dear Blair Armstrong:

iiná bá, Ltd. received 4 samples on 2/7/2003 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,



David Cox

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

iiná bá, Ltd.

Date: 04-Mar-03

CLIENT: Duke Energy Field Service
Project: Val Verde Plant, Bloomfield, NM
Lab Order: 0302004

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

Analytical comments for SAMPLE 0302004-003A: Sandblasting I.M.I.; Soil sample was received with a temperature of 14 degrees C and had approximately three quarters of an inch of headspace.

Analytical comments for SAMPLE 0302004-004A: B-Blast Shop; Soil sample was received with a temperature of 14 degrees C and had approximately three quarters of an inch of headspace.

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 04-Mar-03

CLIENT: Duke Energy Field Service
Work Order: 0302004
Project: Val Verde Plant, Bloomfield, NM
Lab ID: 0302004-001C

Client Sample Info: Val Verde
Client Sample ID: Train 5 Waste Water
Collection Date: 2/6/2003 4:00:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP LEACHED						
		SW7470		(SW7470)		Analyst: DJC
Mercury	0.0006	0.0005		mg/L	1	2/18/2003
ICP METALS, TCLP LEACHED						
		SW1311/6010B		(SW3005A)		Analyst: DJC
Arsenic	ND	0.008		mg/L	1	2/12/2003
Barium	0.062	0.002		mg/L	1	2/12/2003
Cadmium	ND	0.001		mg/L	1	2/12/2003
Chromium	0.080	0.028		mg/L	1	2/12/2003
Lead	ND	0.003		mg/L	1	2/12/2003
Selenium	0.014	0.006		mg/L	1	2/12/2003
Silver	ND	0.001		mg/L	1	2/12/2003

TCLP
METALS

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 1 of 4

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 04-Mar-03

CLIENT: Duke Energy Field Service
Work Order: 0302004
Project: Val Verde Plant, Bloomfield, NM
Lab ID: 0302004-001D

Client Sample Info: Val Verde
Client Sample ID: Train 5 Waste Water
Collection Date: 2/6/2003 4:00:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
PH		E150.1				Analyst: HNR
pH	8.63	2.00		pH units	1	2/10/2003
Temperature	21.0	0		Deg C	1	2/10/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 2 of 4

ina ba, Ltd.

Sample Receipt Checklist

Client Name: **DUK1001**

Date and Time Received:

2/7/2003

Work Order Number: **0302004**

Received by: **JEM**

Checklist completed by: J Moore 2-7-03
Signature Date

Reviewed by: AK 2/10/03
Initials Date

Matrix:

Carrier name: Courier

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 ☒	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: Hayd Date contacted: 2-7-03 Person contacted: _____

Contacted by: J Moore + DC Regarding: Temperature, soil Headspace

Comments: When samples brought in, Temperature was discussed w/ client. Client wanted TCHP volatiles on the soils. Single sample not filled totally discussed.

Corrective Action: Note Temperature on report. Client decided not to do TCHP volatiles on Soil

iiiná bá, Ltd.

Date: 04-Mar-03

CLIENT: Duke Energy Field Service

Work Order: 0302004

Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_HG

Sample ID	MBLK_030218	SampType: MBLK	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A					
Client ID: ZZZZZ		Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62005					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.000400									

Sample ID	LCS_030218	SampType: LCS	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A					
Client ID: ZZZZZ	Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1119	0.000400	0.0993	0	113	70	130	0	0	0	

Sample ID	LCSD_030218	SampType: LCSD	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A					
Client ID: ZZZZZ	Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1026	0.000400	0.0994	0	103	70	130	0.1119	8.67	0	

Sample ID	0302004-003AMS	SampType: MS	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A					
Client ID:	Sand Blasting I.M.I.	Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62015					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1542	0.000625	0.1232	0.000175	125	70	130	0	0	0	

Sample ID	0302011-001AMS	SampType: MS	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A					
Client ID: ZZZZZ		Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62018					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1368	0.000500	0.1245	0.000225	110	70	130	0		0	

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Duke Energy Field Service
 Work Order: 0302004
 Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT
 TestCode: 1311_HG

Sample ID	0302014-002AMS	SampType: MS	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A						
Client ID: ZZZZZ		Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62022						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.1925	0.00200	0.1271	0.00185	150	70	130	0	0	0	S

Sample ID	0302004-001CD	SampType: DUP	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A						
Client ID: Train 5 Waste Water		Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62013						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00045	0.000500	0	0	0	0	0	0.00055	0	15	J

Sample ID	0302014-003AD	SampType: DUP	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A						
Client ID: ZZZZZ		Batch ID: 325	TestNo: SW7470	(SW7470)	Analysis Date: 2/18/2003	SeqNo: 62024						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.0017	0.00200	0	0	0	0	0	0.0024	0	15	J

Sample ID	CCV1_030218	SampType: CCV	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A						
Client ID: ZZZZZ		Batch ID: 325	TestNo: SW7470		Analysis Date: 2/18/2003	SeqNo: 62008						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.1066	0.000500	0.1003	0	106	80	120	0	0	0	

Sample ID	CCV2_030218	SampType: CCV	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A						
Client ID: ZZZZZ		Batch ID: 325	TestNo: SW7470		Analysis Date: 2/18/2003	SeqNo: 62009						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.0932	0.000500	0.1003	0	92.9	80	120	0	0	0	

Sample ID	CCV3_030218	SampType: CCV	TestCode: 1311_HG	Units: mg/L	Prep Date: 2/18/2003	Run ID: AA_030218A						
Client ID: ZZZZZ		Batch ID: 325	TestNo: SW7470		Analysis Date: 2/18/2003	SeqNo: 62010						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

CLIENT: Duke Energy Field Service
Work Order: 0302004
Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_HG

Sample ID	CCV3_030218	SampType:	CCV	TestCode:	1311_HG	Units:	mg/L	Prep Date:	2/18/2003	Run ID:	AA_030218A										
Client ID:	ZZZZZ	Batch ID:	325	TestNo:	SW7470			Analysis Date:	2/18/2003	SeqNo:	62010										
Analyte		Result	0.118	PQL	0.000500	SPK value	0.1003	%REC	118	LowLimit	80	HighLimit	120	RPD Ref Val	0	%RPD	0	RPDLimit	0	Qual	
Mercury																					

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

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 Page 3 of 8

CLIENT: Duke Energy Field Service
 Work Order: 0302004
 Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID	MBLK_030210	SampType: MBLK	TestCode: 1311_M	Units: mg/L	Prep Date: 2/11/2003	Run ID: ICP_1_030212A					
Client ID: ZZZZZ		Batch ID: 322	TestNo: SW1311/6010 (SW3005A)		Analysis Date: 2/12/2003	SeqNo: 61801					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.00800	0	0	0	0	0	0	0		
Barium	ND	0.00200	0	0	0	0	0	0	0		
Cadmium	ND	0.00100	0	0	0	0	0	0	0		
Chromium	ND	0.0280	0	0	0	0	0	0	0		
Lead	ND	0.00300	0	0	0	0	0	0	0		
Selenium	ND	0.00600	0	0	0	0	0	0	0		
Silver	ND	0.00100	0	0	0	0	0	0	0		

Sample ID	LCS_030211	SampType: LCS	TestCode: 1311_M	Units: mg/L	Prep Date: 2/11/2003	Run ID: ICP_1_030212A					
Client ID: ZZZZZ		Batch ID: 322	TestNo: SW1311/6010 (SW3005A)		Analysis Date: 2/12/2003	SeqNo: 61802					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0901	0.00800	0.1041	0	86.6	75	125	0	0		
Barium	0.9454	0.00200	1.041	0	90.8	75	125	0	0		
Cadmium	0.0516	0.00100	0.0521	0	99	75	125	0	0		
Chromium	0.0989	0.0280	0.1041	0	95	75	125	0	0		
Lead	0.0945	0.00300	0.1021	0	92.6	75	125	0	0		
Selenium	0.0521	0.00600	0.0511	0	102	75	125	0	0		
Silver	0.1066	0.00100	0.1041	0	102	75	125	0	0		

Sample ID	LCSD_030211	SampType: LCSD	TestCode: 1311_M	Units: mg/L	Prep Date: 2/11/2003	Run ID: ICP_1_030212A					
Client ID: ZZZZZ		Batch ID: 322	TestNo: SW1311/6010 (SW3005A)		Analysis Date: 2/12/2003	SeqNo: 61803					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0916	0.00800	0.1021	0	89.7	75	125	0.0901	1.65	20	
Barium	0.9566	0.00200	1.021	0	93.7	75	125	0.9454	1.18	20	
Cadmium	0.0523	0.00100	0.0511	0	102	75	125	0.0516	1.35	20	
Chromium	0.0996	0.0280	0.1021	0	97.6	75	125	0.0989	0.705	20	
Lead	0.0964	0.00300	0.1021	0	94.4	75	125	0.0945	1.99	20	
Selenium	0.0565	0.00600	0.0511	0	111	75	125	0.0521	8.10	20	
Silver	0.1054	0.00100	0.1021	0	103	75	125	0.1066	1.13	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Duke Energy Field Service
Work Order: 0302004
Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID	0302004-003AMS	SampType:	MS	TestCode:	1311_M	Units:	mg/L	Prep Date:	2/11/2003	Run ID:	ICP_1_030212A
Client ID:	Sand Blasting I.M.I	Batch ID:	322	TestNo:	SW1311/6010 (SW3005A)			Analysis Date:	2/12/2003	SeqNo:	61807
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.0934	0.00800	0.1006	0	92.8	75	125	0	0		
Barium	1.167	0.00200	1.006	0.2403	92.1	75	125	0	0		
Cadmium	0.0489	0.00100	0.0503	0.0005	96.2	75	125	0	0		
Chromium	0.0989	0.0280	0.1006	0.0072	91.2	75	125	0	0		
Lead	0.0993	0.00300	0.1006	0.0084	90.4	75	125	0	0		
Selenium	0.0523	0.00600	0.0503	0	104	75	125	0	0		
Silver	0.099	0.00100	0.1006	0.0004	98	75	125	0	0		

Sample ID	0302004-003AMSD	SampType:	MSD	TestCode:	1311_M	Units:	mg/L	Prep Date:	2/11/2003	Run ID:	ICP_1_030212A
Client ID:	Sand Blasting I.M.I	Batch ID:	322	TestNo:	SW1311/6010 (SW3005A)			Analysis Date:	2/12/2003	SeqNo:	61808
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.0986	0.00800	0.1007	0	97.9	75	125	0.0934	5.42	20	
Barium	1.199	0.00200	1.007	0.2403	95.2	75	125	1.167	2.66	20	
Cadmium	0.051	0.00100	0.0503	0.0005	100	75	125	0.0489	4.20	20	
Chromium	0.1059	0.0280	0.1007	0.0072	98	75	125	0.0989	6.84	20	
Lead	0.1046	0.00300	0.1007	0.0084	95.5	75	125	0.0993	5.20	20	
Selenium	0.0558	0.00600	0.0503	0	111	75	125	0.0523	6.48	20	
Silver	0.1038	0.00100	0.1007	0.0004	103	75	125	0.099	4.73	20	

Sample ID	0302004-001CD	SampType:	DUP	TestCode:	1311_M	Units:	mg/L	Prep Date:	2/11/2003	Run ID:	ICP_1_030212A
Client ID:	Train 5 Waste Water	Batch ID:	322	TestNo:	SW1311/6010 (SW3005A)			Analysis Date:	2/12/2003	SeqNo:	61805
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.00800	0	0	0	0	0	0	0	20	
Barium	0.0554	0.00200	0	0	0	0	0	0.0619	11.1	20	
Cadmium	ND	0.00100	0	0	0	0	0	0.0004	0	20	
Chromium	0.0768	0.0280	0	0	0	0	0	0.0805	4.70	20	
Lead	ND	0.00300	0	0	0	0	0	0	0	20	
Selenium	0.011	0.00600	0	0	0	0	0	0.0138	22.6	20	R
Silver	ND	0.00100	0	0	0	0	0	0	0	20	

Qualifiers:
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Duke Energy Field Service
Work Order: 0302004
Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_M

Sample ID	CCB1_030212	SampType:	CCB	TestCode:	1311_M	Units:	mg/L	Prep Date:		Run ID:	ICP_1_030212A
Client ID:	ZZZZZ	Batch ID:	322	TestNo:	SW1311/6010			Analysis Date:	2/12/2003	SeqNo:	61810
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.00800	0	0	0	0	0	0	0	0	0
Barium	ND	0.00200	0	0	0	0	0	0	0	0	0
Cadmium	0.0008	0.00100	0	0	0	0	0	0	0	0	0
Chromium	ND	0.0280	0	0	0	0	0	0	0	0	0
Lead	ND	0.00300	0	0	0	0	0	0	0	0	0
Selenium	ND	0.00600	0	0	0	0	0	0	0	0	0
Silver	0.0001	0.00100	0	0	0	0	0	0	0	0	0

Sample ID	CCB2_030212	SampType:	CCB	TestCode:	1311_M	Units:	mg/L	Prep Date:		Run ID:	ICP_1_030212A
Client ID:	ZZZZZ	Batch ID:	322	TestNo:	SW1311/6010			Analysis Date:	2/12/2003	SeqNo:	61812
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.00800	0	0	0	0	0	0	0	0	0
Barium	ND	0.00200	0	0	0	0	0	0	0	0	0
Cadmium	0.0013	0.00100	0	0	0	0	0	0	0	0	0
Chromium	0.0001	0.0280	0	0	0	0	0	0	0	0	0
Lead	ND	0.00300	0	0	0	0	0	0	0	0	0
Selenium	ND	0.00600	0	0	0	0	0	0	0	0	0
Silver	ND	0.00100	0	0	0	0	0	0	0	0	0

Sample ID	CCV1_030212	SampType:	CCV	TestCode:	1311_M	Units:	mg/L	Prep Date:		Run ID:	ICP_1_030212A
Client ID:	ZZZZZ	Batch ID:	322	TestNo:	SW1311/6010			Analysis Date:	2/12/2003	SeqNo:	61811
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.2066	0.00800	0.2068	0	99.9	90	110	0	0	0	0
Barium	1.921	0.00200	2.068	0	92.9	90	110	0	0	0	0
Cadmium	0.0969	0.00100	0.1034	0	93.7	90	110	0	0	0	0
Chromium	0.2	0.0280	0.2068	0	96.7	90	110	0	0	0	0
Lead	0.1922	0.00300	0.2068	0	92.9	90	110	0	0	0	0
Selenium	0.1052	0.00600	0.1034	0	102	90	110	0	0	0	0
Silver	0.193	0.00100	0.2068	0	93.3	90	110	0	0	0	0

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

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Duke Energy Field Service
Work Order: 0302004
Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT
TestCode: 1311_M

Sample ID	CCV2_030212	SampType:	CCV	TestCode:	1311_M	Units:	mg/L	Prep Date:	Run ID:	ICP_1_030212A	
Client ID:	ZZZZZ	Batch ID:	322	TestNo:	SW1311/6010			Analysis Date:	SeqNo:	61813	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.1921	0.00800	0.2068	0	92.9	90	110	0	0		
Barium	2.103	0.00200	2.068	0	102	90	110	0	0		
Cadmium	0.1028	0.00100	0.1034	0	99.4	90	110	0	0		
Chromium	0.2236	0.0280	0.2068	0	108	90	110	0	0		
Lead	0.2035	0.00300	0.2068	0	98.4	90	110	0	0		
Selenium	0.0956	0.00600	0.1034	0	92.5	90	110	0	0		
Silver	0.2201	0.00100	0.2068	0	106	90	110	0	0		

Sample ID	ICV_030212	SampType:	ICV	TestCode:	1311_M	Units:	mg/L	Prep Date:	Run ID:	ICP_1_030212A	
Client ID:	ZZZZZ	Batch ID:	322	TestNo:	SW1311/6010			Analysis Date:	SeqNo:	61819	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.002	0.00800	1	0	100	90	110	0	0		
Barium	0.9872	0.00200	1	0	98.7	90	110	0	0		
Cadmium	1.001	0.00100	1	0	100	90	110	0	0		
Chromium	1.042	0.0280	1	0	104	90	110	0	0		
Lead	0.9918	0.00300	1	0	99.2	90	110	0	0		
Selenium	1.012	0.00600	1	0	101	90	110	0	0		
Silver	0.472	0.00100	0.5	0	94.4	90	110	0	0		

CLIENT: Duke Energy Field Service
Work Order: 0302004
Project: Val Verde Plant, Bloomfield, NM

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID	LCS_030210	SampType:	LCS	TestCode:	PH_W	Units:	pH units	Prep Date:		Run ID:	WET CHEM_030210A										
Client ID:	ZZZZZ	Batch ID:	R4240	TestNo:	E150.1			Analysis Date:	2/10/2003	SeqNo:	61799										
Analyte		Result	5.21	PQL	2.00	SPK value	5.23	%REC	99.6	LowLimit	90	HighLimit	110	RPD Ref Val	0	%RPD	0	RPDLimit	0	Qual	
pH																					

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

TestAmerica

INCORPORATED

2/19/03

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

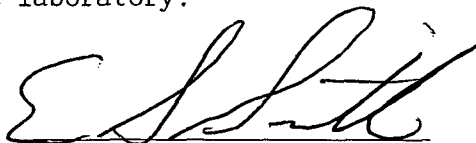
Project Name:
Project Number: .
Laboratory Project Number: 319848.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Page 1 Collection Date
-----	-----	-----
0302004-001A	03-A20519	2/ 6/03
0302004-001B	03-A20520	2/ 6/03
0302004-002A	03-A20521	2/ 6/03

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:



Report Date: 2/19/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 03-A20519
Sample ID: 0302004-001A
Sample Type: Liquid waste
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 2/ 6/03
Time Collected: 16:00
Date Received: 2/12/03
Time Received: 9:00
Page: 1

Val Verde Plant, Train 5 Waste Water

18
3/4/03

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike		Date	Time	Analyst	Method	QC Batch
				Recovery (%)						
Benzene	0.260	mg/l	0.5	112		2/18/03	7:13	B. Messay	8260	4582
Carbon tetrachloride	< 0.0200	mg/l	0.5	110		2/18/03	7:13	B. Messay	8260	4582
Chlorobenzene	< 0.0200	mg/l	100	116		2/18/03	7:13	B. Messay	8260	4582
Chloroform	< 0.0200	mg/l	6.0	110		2/18/03	7:13	B. Messay	8260	4582
1,2-Dichloroethane	< 0.0200	mg/l	0.5	100		2/18/03	7:13	B. Messay	8260	4582
1,1-Dichloroethene	< 0.0200	mg/l	0.7	120		2/18/03	7:13	B. Messay	8260	4582
Methylethylketone	< 0.100	mg/l	200	93		2/18/03	7:13	B. Messay	8260	4582
Tetrachloroethene	< 0.0200	mg/l	0.7	116		2/18/03	7:13	B. Messay	8260	4582
Trichloroethene	< 0.0200	mg/l	0.5	110		2/18/03	7:13	B. Messay	8260	4582
Vinyl Chloride	< 0.0200	mg/l	0.2	124		2/18/03	7:13	B. Messay	8260	4582

10/17/03

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	92.	73. - 133.
VOA Surr Toluene-d8	109.	80. - 121.
VOA Surr, 4-BFB	99.	80. - 128.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A20519
Sample ID: 0302004-001A
Project:
Page 2

LABORATORY COMMENTS:

ND - Not detected at the report limit.
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 03-A20520
Sample ID: 0302004-001B
Sample Type: Liquid waste
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 2/ 6/03
Time Collected: 16:00
Date Received: 2/12/03
Time Received: 9:00
Page: 1

Val Verde Plant, Train 5 Waste Water

3/4/03

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
---------	--------	-------	-----------------	---------------	---------------	------	------	---------	--------	-------

GENERAL CHEMISTRY PARAMETERS

Ignitability	NOT IGNITABLE UP TO 200F					2/18/03	10:31	T. Beverly	1010M	8424
--------------	--------------------------	--	--	--	--	---------	-------	------------	-------	------

LABORATORY COMMENTS:

ND - Not detected at the report limit.
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
Flash point/ignitability reported to the nearest 10 deg F.
All results reported on a wet weight basis.

End of Sample Report.

ANALYTICAL REPORT

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 03-A20521
Sample ID: 0302004-002A
Sample Type: Liquid waste
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 2/ 6/03
Time Collected:
Date Received: 2/12/03
Time Received: 9:00
Page: 1

Val Verde Plant, Trip Blank

3/4/03

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike		Date	Time	Analyst	Method	QC Batch
				Recovery (%)						
Benzene	< 0.0200	mg/l	0.5	112		2/18/03	7:13	B. Messay	8260	4582
Carbon tetrachloride	< 0.0200	mg/l	0.5	110		2/18/03	7:13	B. Messay	8260	4582
Chlorobenzene	< 0.0200	mg/l	100	116		2/18/03	7:13	B. Messay	8260	4582
Chloroform	0.0700	mg/l	6.0	110		2/18/03	7:13	B. Messay	8260	4582
1,2-Dichloroethane	< 0.0200	mg/l	0.5	100		2/18/03	7:13	B. Messay	8260	4582
1,1-Dichloroethene	< 0.0200	mg/l	0.7	120		2/18/03	7:13	B. Messay	8260	4582
Methylethylketone	< 0.100	mg/l	200	93		2/18/03	7:13	B. Messay	8260	4582
Tetrachloroethene	< 0.0200	mg/l	0.7	116		2/18/03	7:13	B. Messay	8260	4582
Trichloroethene	< 0.0200	mg/l	0.5	110		2/18/03	7:13	B. Messay	8260	4582
Vinyl Chloride	< 0.0200	mg/l	0.2	124		2/18/03	7:13	B. Messay	8260	4582

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	97.	73. - 133.
VOA Surr Toluene-d8	104.	80. - 121.
VOA Surr, 4-BFB	102.	80. - 128.

Sample report continued . . .

ANALYTICAL REPORT

Laboratory Number: 03-A20521
Sample ID: 0302004-002A
Project:
Page 2

LABORATORY COMMENTS:

ND - Not detected at the report limit.
B - Analyte was detected in the method blank.
J - Estimated Value below Report Limit.
E - Estimated Value above the calibration limit of the instrument.
- Recovery outside Laboratory historical or method prescribed limits.
All results reported on a wet weight basis.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 1

Laboratory Receipt Date: 2/12/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
-----	-----	-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS								
Benzene	mg/l	< 0.00000	0.0560	0.0500	112	78. - 132.	4582	03a21405
Carbon tetrachloride	mg/l	< 0.00000	0.0550	0.0500	110	64. - 146.	4582	03a21405
Chlorobenzene	mg/l	< 0.00000	0.0580	0.0500	116	79. - 124.	4582	03a21405
Chloroform	mg/l	< 0.00000	0.0550	0.0500	110	73. - 133.	4582	03a21405
1,2-Dichloroethane	mg/l	< 0.00000	0.0500	0.0500	100	70. - 140.	4582	03a21405
1,1'-Dichloroethene	mg/l	< 0.00000	0.0600	0.0500	120	68. - 141.	4582	03a21405
Methylethylketone	mg/l	< 0.00000	0.232	0.250	93	69. - 142.	4582	03a21405
Tetrachloroethene	mg/l	< 0.00000	0.0580	0.0500	116	72. - 136.	4582	03a21405
Trichloroethene	mg/l	< 0.00000	0.0550	0.0500	110	73. - 137.	4582	03a21405
Vinyl Chloride	mg/l	< 0.00000	0.0620	0.0500	124	52. - 156.	4582	03a21405

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
VOA PARAMETERS						
Benzene	mg/l	0.0560	0.0550	1.80	15.	4582
Carbon tetrachloride	mg/l	0.0550	0.0550	0.00	21.	4582
Chlorobenzene	mg/l	0.0580	0.0580	0.00	16.	4582
Chloroform	mg/l	0.0550	0.0560	1.80	20.	4582
1,2-Dichloroethane	mg/l	0.0500	0.0500	0.00	16.	4582
1,1-Dichloroethene	mg/l	0.0600	0.0600	0.00	19.	4582
Methylethylketone	mg/l	0.232	0.244	5.04	21.	4582
Tetrachloroethene	mg/l	0.0580	0.0560	3.51	23.	4582
Trichloroethene	mg/l	0.0550	0.0550	0.00	20.	4582

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 2

Laboratory Receipt Date: 2/12/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Vinyl Chloride	mg/l	0.0620	0.0610	1.63	28.	4582

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.0500	0.0570	114	78 - 127	4582
Carbon tetrachloride	mg/l	0.0500	0.0540	108	69 - 132	4582
Chlorobenzene	mg/l	0.0500	0.0590	118	81 - 120	4582
Chloroform	mg/l	0.0500	0.0560	112	77 - 125	4582
1,2-Dichloroethane	mg/l	0.0500	0.0510	102	71 - 135	4582
1,1-Dichloroethene	mg/l	0.0500	0.0560	112	72 - 128	4582
Methylethylketone	mg/l	0.250	0.242	97	75 - 140	4582
Tetrachloroethene	mg/l	0.0500	0.0560	112	76 - 123	4582
Trichloroethene	mg/l	0.0500	0.0550	110	78 - 125	4582

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Benzene	< 0.0200	mg/l	4582	2/18/03	7:13
Carbon tetrachloride	< 0.0200	mg/l	4582	2/18/03	7:13
Chlorobenzene	< 0.0200	mg/l	4582	2/18/03	7:13
Chloroform	< 0.00000	mg/l	4582	2/18/03	7:13
1,2-Dichloroethane	< 0.0200	mg/l	4582	2/18/03	7:13
1,1-Dichloroethene	< 0.0200	mg/l	4582	2/18/03	7:13
Methylethylketone	< 0.100	mg/l	4582	2/18/03	7:13

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 3

Laboratory Receipt Date: 2/12/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Tetrachloroethene	< 0.0200	mg/l	4582	2/18/03	7:13
Trichloroethene	< 0.0200	mg/l	4582	2/18/03	7:13
Vinyl Chloride	< 0.0200	mg/l	4582	2/18/03	7:13
VOA Surr 1,2-DCA-d4	96.	% Rec	4582	2/18/03	7:13
VOA Surr Toluene-d8	107.	% Rec	4582	2/18/03	7:13
VOA Surr, 4-BFB	101.	% Rec	4582	2/18/03	7:13

- Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 319848

iina ba, Ltd.

612 E. Murray Drive
Farmington, NM 87401
(505) 327-1072

379646

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Test America, Inc.
2960 Foster Creighton Drive
Nashville, TN 372040566

TEL: (800) 765-0980
FAX: (615) 726-3404

Acct #: 3130

10-Feb-03

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests			
				SW1010	SW1311	SW1311/8260E	
0302004-001A	Aqueous	2/6/2003 4:00:00 PM	VOAHCL		1	1	20519
0302004-001B	Aqueous	2/6/2003 4:00:00 PM	VOAHCL	1			20
0302004-002A	Aqueous	2/6/2003	VOAHCL		1	1	20519

Comments:

Please analyze two (2) water samples for TCLP Volatiles. Sample #0302004-002A is a trip blank, please do not charge us for it. Analyze sample #0302004-001B for ignitability.

Date/Time

Relinquished by: *Q. Moore*

2/11/03

Relinquished by:

Received by:

MM. K.

Date/Time

2/12/03 9:22

Received by:

CC

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

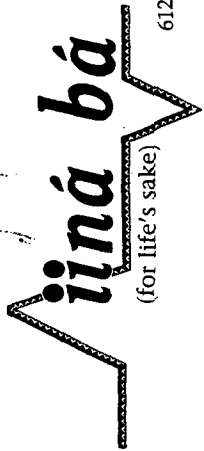
Client: IINA BC# 319848

Cooler Received On: 2/12/03 And Opened On: 2/12/03 By: Mark Beasley

Mark Beasley
(Signature)

1. Temperature of Cooler when opened 20 Degrees Celsius
2. Were custody seals on outside of cooler?.....☒ YES NO N/A
 - a. If yes, how many, what kind and where: 1 Front
 - b. Were the seals intact, signed, and dated correctly?.....☒ YES NO N/A
3. Were custody seals on containers and intact?.....☒ NO YES N/A
4. Were custody papers inside cooler?.....☒ YES NO N/A
5. Were custody papers properly filled out (ink, signed, etc)?.....☒ YES NO N/A
6. Did you sign the custody papers in the appropriate place?.....☒ YES NO N/A
7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
8. Was sufficient ice used (if appropriate)?.....☒ YES NO N/A
9. Did all bottles arrive in good condition (unbroken)?.....☒ YES NO N/A
10. Were all bottle labels complete (#, date, signed, pres, etc)?.....☒ YES NO N/A
11. Did all bottle labels and tags agree with custody papers?.....☒ YES NO N/A
12. Were correct bottles used for the analysis requested?.....☒ YES NO N/A
13. a. Were VOA vials received?.....☒ YES NO N/A
 - b. Was there any observable head space present in any VOA vial?.....☒ NO YES N/A
14. Was sufficient amount of sample sent in each bottle?.....☒ YES NO N/A
15. Were correct preservatives used?.....☒ YES NO N/A
If not, record standard ID of preservative used here _____
16. Was residual chlorine present?.....☒ NO YES N/A
17. Corrective action taken, if necessary:

See attached for resolution



CHAIN OF CUSTODY RECORD

B 1531

Date: _____ of _____

Page _____

612 E. Murray Dr. • P. O. Box 2606 • Farmington NM 87499
(505) 327-1072 • FAX: (505) 327-1496

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company		Title	
Address		Dept.		Mailing Address		City, State, Zip	
City, State, Zip		Telephone No.		Telephone No.		Telefax No.	
Name: Lloyd L. Lugo		Job No. 874113		Company: Duke Energy, Rockies Region		Title: Eng. Mgr.	
Address: 119 County Road 4900		Dept. OPEIS		Mailing Address: 377 17th Street		City, State, Zip: Denver, Colorado 80202	
City, State, Zip: Bloomfield, NM		Telephone No. 874113		Telephone No. 303-405-1726		Telefax No.	
Sampling Location: Duke Energy Val Verde Plant, Bloomfield, NM Train 5 - Waste Water				ANALYSIS REQUESTED			
Sampler: Lloyd L. Lugo 632-6471				Containers			
SAMPLE IDENTIFICATION				LAB ID			
DATE				TIME			
MATRIX				PRES.			
TRAIN 5 WASTE WATER				0302004-001			
TRIP BLANK				0302004-002			
Sand blasting T.M.I				0302004-003			
A-Blast shop				-004			
Relinquished by: Lloyd L. Lugo				Received by: J. Moore			
Date/Time: 9/15/87				Date/Time: 9/15/87			
Relinquished by:				Received by:			
Date/Time:				Date/Time:			
Relinquished by:				Received by:			
Date/Time:				Date/Time:			
Method of Shipment:				Rush			
Authorized by:				Special Instructions: 7-140C			
(Client Signature Must Accompany Request)				10 Working Days			
Date:				24-48 Hours			
Distribution: White - On Site				Yellow - LAB			
Pink - Sampler				Goldenrod - Client			

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

March 05, 2003

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Blair Armstrong
Duke Energy Field Service
370 17th St., Suite 900
Denver, CO 80202

TEL: (505) 632-6462

FAX (505) 632-6485

RE: Val Verde Waste Water Storage Tank

Order No.: 0302012

Dear Blair Armstrong:

iiná bá, Ltd. received 1 sample on 2/13/2003 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,



David Cox

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

iiná bá

P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

iiná bá, Ltd.

Date: 05-Mar-03

CLIENT: Duke Energy Field Service
Project: Val Verde Waste Water Storage Tank
Lab Order: 0302012

CASE NARRATIVE

One (1) aqueous sample was sub-contracted to Test America, Inc. in Nashville, TN for analysis.

iina ba, Ltd.

Sample Receipt Checklist

Client Name: DUK1001

Date and Time Received:

2/13/2003

Work Order Number: 0302012

Received by: HNR

Checklist completed by:

Heidi R 2/13/03
Signature Date

Reviewed by:

Jim 2/14/03
Initials Date

Matrix:

Carrier name: Courier

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 ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted? _____

Checked by: _____

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: _____

TestAmerica

INCORPORATED

2/28/03

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name:

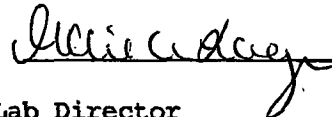
Project Number: .

Laboratory Project Number: 320393.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Page 1 Collection Date
0302012-001A	03-A22937	2/13/03

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: 

Report Date: 2/27/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

TestAmerica

INCORPORATED

ANALYTICAL REPORT

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 03-A22937
Sample ID: 0302012-001A
Sample Type: Liquid waste
Site ID:

Project:
Project Name:
Sampler:

Date Collected: 2/13/03
Time Collected: 13:00
Date Received: 2/15/03
Time Received: 9:00
Page: 1

Val Verde Waste Water Storage Tank

TCLP Results

Matrix Spike

Analyte	Result	Units	Reg Limit	Recovery (%)	Date	Time	Analyst	Method	QC Batch
Cresols	< 0.100	mg/l	200	38	2/26/03	23:00	M.Schott	8270	6413
1,4-Dichlorobenzene	< 0.0200	mg/l	7.5	30	2/26/03	23:00	M.Schott	8270	6413
2,4-Dinitrotoluene	< 0.0200	mg/l	0.13	78	2/26/03	23:00	M.Schott	8270	6413
Hexachlorobenzene	< 0.0200	mg/l	0.13	48	2/26/03	23:00	M.Schott	8270	6413
Hexchlor-1,3-butadien	< 0.0200	mg/l	0.5	32	2/26/03	23:00	M.Schott	8270	6413
Hexachloroethane	< 0.0200	mg/l	3.0	30	2/26/03	23:00	M.Schott	8270	6413
Nitrobenzene	< 0.0200	mg/l	2.0	38	2/26/03	23:00	M.Schott	8270	6413
Pentachlorophenol	< 0.100	mg/l	100	12	2/26/03	23:00	M.Schott	8270	6413
Pyridine	0.0262	mg/l	5.0	22	2/26/03	23:00	M.Schott	8270	6413
2,4,5-Trichlorophenol	< 0.100	mg/l	400	2	2/26/03	23:00	M.Schott	8270	6413
2,4,6-Trichlorophenol	< 0.100	mg/l	2.0	3	2/26/03	23:00	M.Schott	8270	6413
TCLP Extraction	Initiated				2/21/03	14:35	M. Cauthen	1311	7319

Sample Extraction Data

Parameter	Wt/Vol	Extracted	Extract Vol	Date	Time	Analyst	Method
TCLP BNA's	500. ml	1.0 ml	2/25/03			D. Harris	3510

Sample report continued . . .

TestAmerica

INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 03-A22937

Sample ID: 0302012-001A

Project:

Page 2

Surrogate	% Recovery	Target Range
-----	-----	-----
BNA Surr-Nitrobenzene-d5	93.	40. - 127.
BNA Surr-2-Fluorobiphenyl	92.	42. - 113.
BNA Surr-Terphenyl-d14	90.	41. - 129.
BNA Surr-Phenol-d5	0. #	1. - 75.
BNA Surr-2-Fluorophenol	28.	3. - 97.
BNA Surr-2,4,6-Tribromophenol	114.	35. - 174.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

All results reported on a wet weight basis.

TCLP BNA surrogates outside QC limits due to sample matrix.

End of Sample Report.

TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 1

Laboratory Receipt Date: 2/15/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
*****	*****	*****	*****	*****	*****	*****	*****	*****
EXTRACTABLE PARAMETERS								
Cresols	mg/l	< 0.0100	0.228	0.600	38	19. - 104.	6413	03-A25719
Cresols	mg/l	< 0.0100	0.268	0.600	45	19. - 104.	6413	03-A25719
1,4-Dichlorobenzene	mg/l	< 0.0100	0.0600	0.200	30	23. - 103.	6413	03-A25719
1,4-Dichlorobenzene	mg/l	< 0.0100	0.0800	0.200	40	23. - 103.	6413	03-A25719
2,4-Dinitrotoluene	mg/l	< 0.0100	0.136	0.200	68	24. - 136.	6413	03-A25719
2,4-Dinitrotoluene	mg/l	< 0.0100	0.140	0.200	70	24. - 136.	6413	03-A25719
Hexachlorobenzene	mg/l	< 0.0100	0.0960	0.200	48	22. - 78.	6413	03-A25719
Hexachlorobenzene	mg/l	< 0.0100	0.100	0.200	50	22. - 78.	6413	03-A25719
Hexachlor-1,3-butadien	mg/l	< 0.0100	0.0640	0.200	32	18. - 106.	6413	03-A25719
Hexachlor-1,3-butadien	mg/l	< 0.0100	0.0840	0.200	42	18. - 106.	6413	03-A25719
Hexachloroethane	mg/l	< 0.0100	0.0600	0.200	30	21. - 103.	6413	03-A25719
Hexachloroethane	mg/l	< 0.0100	0.0760	0.200	38	21. - 103.	6413	03-A25719
Nitrobenzene	mg/l	< 0.0100	0.0760	0.200	38	30. - 119.	6413	03-A25719
Nitrobenzene	mg/l	< 0.0100	0.104	0.200	52	30. - 119.	6413	03-A25719
Pentachlorophenol	mg/l	< 0.0100	0.0240	0.200	12#	30. - 146.	6413	03-A25719
Pentachlorophenol	mg/l	< 0.0100	0.124	0.200	62	30. - 146.	6413	03-A25719
Pyridine	mg/l	< 0.0100	0.0440	0.200	22	1. - 84.	6413	03-A25719
Pyridine	mg/l	< 0.0100	0.0520	0.200	26	1. - 84.	6413	03-A25719
2,4,5-Trichlorophenol	mg/l	< 0.0100	0.00540	0.200	3#	34. - 135.	6413	03-A25719
2,4,5-Trichlorophenol	mg/l	< 0.0100	0.128	0.200	64	34. - 135.	6413	03-A25719
2,4,6-Trichlorophenol	mg/l	< 0.0100	0.00650	0.200	3#	32. - 135.	6413	03-A25719
2,4,6-Trichlorophenol	mg/l	< 0.0100	0.120	0.200	60	32. - 135.	6413	03-A25719

Project QC continued . . .

TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 2

Laboratory Receipt Date: 2/15/03

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
EXTRACTABLE PARAMETERS						
Cresols	mg/l	0.228	0.268	16.13	36.	6413
1,4-Dichlorobenzene	mg/l	0.0600	0.0800	28.57	38.	6413
2,4-Dinitrotoluene	mg/l	0.136	0.140	2.90	36.	6413
Hexachlorobenzene	mg/l	0.0960	0.100	4.08	36.	6413
Hexchlor-1,3-butadien	mg/l	0.0640	0.0840	27.03	41.	6413
Hexachloroethane	mg/l	0.0600	0.0760	23.53	39.	6413
Nitrobenzene	mg/l	0.0760	0.104	31.11	43.	6413
Pentachlorophenol	mg/l	0.0240	0.124	135.14#	37.	6413
Pyridine	mg/l	0.0440	0.0520	16.67	88.	6413
2,4,5-Trichlorophenol	mg/l	0.00540	0.128	183.81#	38.	6413
2,4,6-Trichlorophenol	mg/l	0.00650	0.120	179.45#	38.	6413

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
-----	-----	-----	-----	-----	-----	-----
EXTRACTABLE PARAMETERS						
Cresols	mg/l	0.300	0.242	81	19 - 100	6413
1,4-Dichlorobenzene	mg/l	0.100	0.0900	90	23 - 103	6413
2,4-Dinitrotoluene	mg/l	0.100	0.130	130	24 - 136	6413
Hexachlorobenzene	mg/l	0.100	0.0940	94 #	22 - 78	6413
Hexchlor-1,3-butadien	mg/l	0.100	0.0940	94	18 - 106	6413
Hexachloroethane	mg/l	0.100	0.0860	86	21 - 103	6413
Nitrobenzene	mg/l	0.100	0.106	106	30 - 117	6413
Pentachlorophenol	mg/l	0.100	0.116	116	30 - 130	6413
Pyridine	mg/l	0.100	0.0400	40	9 - 71	6413
2,4,5-Trichlorophenol	mg/l	0.100	0.120	120	34 - 132	6413

Project QC continued . . .

TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA

Project Number:

Project Name:

Page: 3

Laboratory Receipt Date: 2/15/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2,4,6-Trichlorophenol	mg/l	0.100	0.118	118	32 - 129	6413

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
---------	-------------	-------	------------	---------------	---------------

EXTRACTABLE PARAMETERS

Cresols	< 0.0100	mg/l	6413	2/26/03	23:00
1,4-Dichlorobenzene	< 0.0100	mg/l	6413	2/26/03	23:00
2,4-Dinitrotoluene	< 0.0100	mg/l	6413	2/26/03	23:00
Hexachlorobenzene	< 0.0100	mg/l	6413	2/26/03	23:00
Hexachlor-1,3-butadien	< 0.0100	mg/l	6413	2/26/03	23:00
Hexachloroethane	< 0.0100	mg/l	6413	2/26/03	23:00
Nitrobenzene	< 0.0100	mg/l	6413	2/26/03	23:00
Pentachlorophenol	< 0.0100	mg/l	6413	2/26/03	23:00
Pyridine	< 0.0100	mg/l	6413	2/26/03	23:00
2,4,5-Trichlorophenol	< 0.0100	mg/l	6413	2/26/03	23:00
2,4,6-Trichlorophenol	< 0.0100	mg/l	6413	2/26/03	23:00

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 320393

ina ba, Ltd.

612 E. Murray Drive
Farrington, NM 87401
(505) 327-1072

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Test America, Inc.
2960 Foster Creighton Drive
Nashville, TN 372040566

TEL: (800) 765-0980
FAX: (615) 726-3404
Acct #: 3130

320343

13-Feb-03

Sample ID	Matrix	Collection Date	Bottle Type	SW1311/82700	SW3510	Requested Tests
0302012-001A	Aqueous	2/13/2003 1:00:00 PM	1LAMGU	1	1	

Comments:

Please analyze one (1) water sample for TCLP Semivolatiles.

Date/Time

Date/Time

Relinquished by: J Moore

2/14/03 12:45

Received by:

Received by:

Rhy 2/15/03

2:00

TESTAMERICA, INC.-NASHVILLE**COOLER RECEIPT FORM**

320393

Client: Iina Ba LtdBC# 3205 PRBCooler Received On: 2/15/03 And Opened On: 2/15/03 By Paul R. Buckingham IIPLM
(Signature)

1. Temperature of Cooler when opened 2.0 Degrees Celsius
2. Were custody seals on outside of cooler?.....☒ YES NO N/A
 - a. If yes, how many, what kind and where: 1 fract
 - b. Were the seals intact, signed, and dated correctly?.....☒ YES NO N/A
3. Were custody seals on containers and intact?.....NO YES ☒ N/A
4. Were custody papers inside cooler?.....☒ YES NO N/A
5. Were custody papers properly filled out (ink, signed, etc)?.....☒ YES NO N/A
6. Did you sign the custody papers in the appropriate place?.....☒ YES NO N/A
7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
8. Was sufficient ice used (if appropriate)?.....☒ YES NO N/A
9. Did all bottles arrive in good condition (unbroken)?.....☒ YES NO N/A
10. Were all bottle labels complete (#, date, signed, pres, etc)?.....☒ YES NO N/A
11. Did all bottle labels and tags agree with custody papers?.....☒ YES NO N/A
12. Were correct bottles used for the analysis requested?.....☒ YES NO N/A
13. a. Were VOA vials received?.....YES ☒ NO N/A
 - b. Was there any observable head-space present in any VOA vial?.....NO YES ☒ N/A
14. Was sufficient amount of sample sent in each bottle?.....☒ YES NO N/A
15. Were correct preservatives used?.....☒ YES NO N/A
If not, record standard ID of preservative used here _____
16. Was residual chlorine present?.....☒ NO YES N/A
17. Corrective action taken, if necessary:

See attached for resolution

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

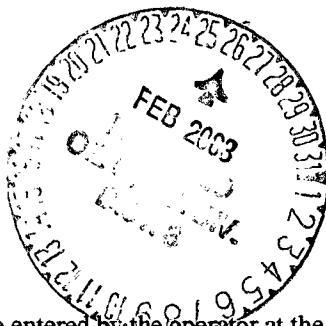
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator <u>Key Energy Services</u>
2. Management Facility Destination <u>KEY ENERGY DISPOSAL</u>	5. Originating Site <u>FARMINGTON YARD</u> <u>4164 WY 64</u>
3. Address of Facility Operator <u>#345 CR 3500 AZTEC NM</u>	6. Transporter <u>KEY</u>
7. Location of Material (Street Address or ULSTR) <u>5651 US HIGHWAY 64</u> <u>FARMINGTON, NM</u>	8. State <u>NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. ☒ B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

OILFIELD SERVICE EQUIPMENT WASH WATER (NEW ANALYSIS 2003)

LAST FILED 2-27-02



Estimated Volume 800 bbls ^{per month} cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Michael Talovich TITLE: FACILITY MANAGER DATE: 2-26-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Denny Feunt TITLE: Enviro/Engl DATE: 2/26/03
APPROVED BY: Monty J. H. TITLE: Environmental Geologist DATE: 3/13/03



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Key Energy Services, Inc Four Corners Division 5651 US Highway 64 Farmington, NM 87401	2. Destination Name: Key Energy Services, Inc. Crouch Mesa Disposal
3. Originating Site (name): Key Energy Services, Inc Four Corners Division 5651 US Highway 64 Farmington, NM 87401 attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): Farmington Facility Waste Water Storage Tank
4. Source and Description of Waste Oilfield Service Equipment Waste Wash Water	

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

☐ **EXEMPT** oilfield waste

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

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

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

☐ MSDS Information

☐ Other (description)

☒ **RCRA Hazardous Waste Analysis**

☒ **Chain of Custody**

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

Name (Original Signature):

Title:

Equipment & Environmental Manager

Date:

February 25, 2003

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

February 20, 2003

Project #98065-001

Mr. Bob James
Key Energy
5651 U.S. Highway 64
Farmington, New Mexico 87401

Phone (505) 327-4935
Fax (505) 327-4962

**RE: TCLP ANALYTICAL RESULTS FOR THE KEY ENERGY RIG WASH BAY LOCATED ON
HIGHWAY 64, FARMINGTON, NEW MEXICO**

Dear Mr. James:

Enclosed, please find the TCLP analytical results for the Key Energy Rig Wash Bay sample collected on February 10, 2003.

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

Sincerely,
ENVIROTECH INC.



Landrea Jackson
Environmental Administrative Assistant
ljackson@envirotech-inc.com

Attached: Analytical Results

LRJ/enviro/landfarm/receival paperwork/98065-001/022003 Analytical.doc

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Key Energy	Project #:	98065-001
Sample ID:	S - 1	Date Reported:	02-14-03
Lab ID#:	24803	Date Sampled:	02-10-03
Sample Matrix:	Waste Stream	Date Received:	02-10-03
Preservative:	Cool	Date Analyzed:	02-14-03
Condition:	Cool and Intact	Chain of Custody:	10619

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

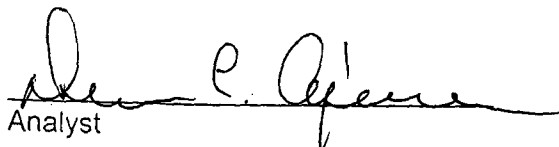
IGNITABILITY:	Negative	
CORROSIVITY:	Negative	pH = 6.70
REACTIVITY:	Negative	

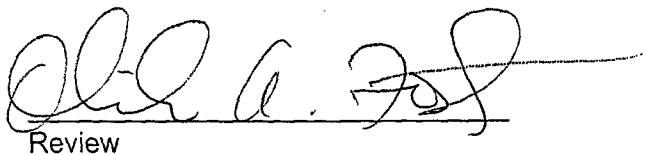
RCRA Hazardous Waste Criteria

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

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

Comments: Hwy 64, Farmington Rig Washbay Sludge.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	02-10-03
Chain of Custody:	10619	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Extracted:	02-12-03
Preservative:	Cool	Date Analyzed:	02-13-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0200	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0040	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

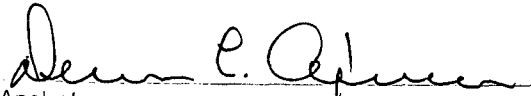
ND - Parameter not detected at the stated detection limit.

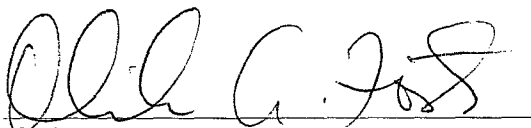
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

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

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

Comments: Hwy 64, Farmington Rig Washbay Sludge.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS

Client:	Key Energy	Project #:	98065-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	02-10-03
Chain of Custody:	10619	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Extracted:	02-12-03
Preservative:	Cool	Date Analyzed:	02-13-03
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

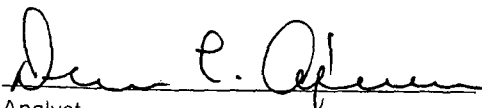
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

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

Comments: Hwy 64, Farmington Rig Washbay Sludge.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Key Energy	Project #:	98065-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	02-10-03
Chain of Custody:	10619	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Extracted:	02-12-03
Preservative:	Cool	Date Analyzed:	02-13-03
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

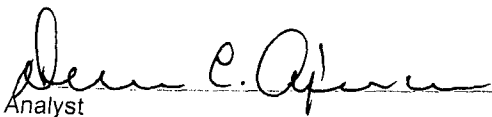
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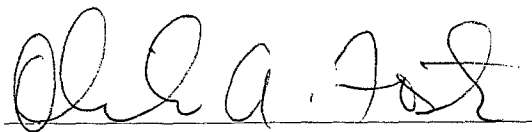
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	100%

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

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

Comments: Hwy 64, Farmington Rig Washbay Sludge.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Key Energy	Project #:	98065-001
Sample ID:	S - 1	Date Reported:	02-14-03
Laboratory Number:	24803	Date Sampled:	02-10-03
Chain of Custody:	10619	Date Received:	02-10-03
Sample Matrix:	TCLP Extract	Date Analyzed:	02-14-03
Preservative:	Cool	Date Extracted:	02-12-03
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.029	0.001	5.0
Barium	0.067	0.001	100
Cadmium	0.004	0.001	1.0
Chromium	0.018	0.001	5.0
Lead	0.022	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.021	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

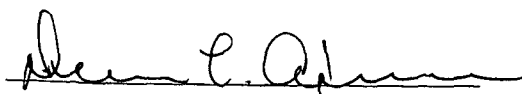
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

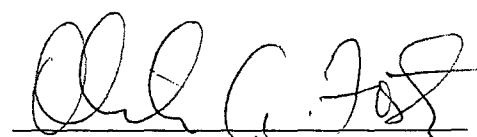
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: Hwy 64, Farmington Rig Washbay Sludge.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

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

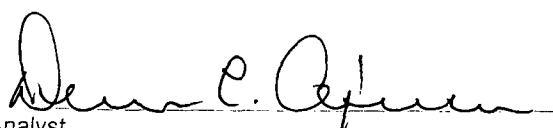
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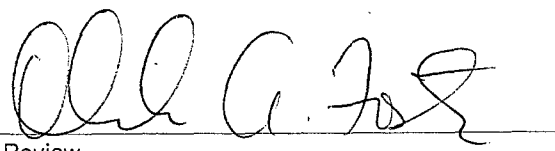
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

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

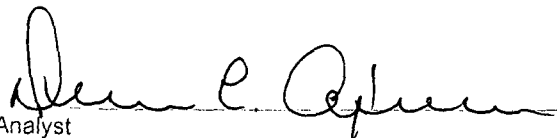
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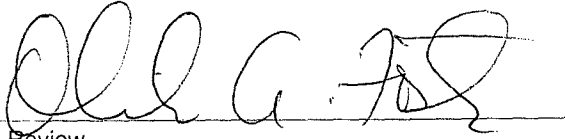
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	99%
	1,4-difluorobenzene	98%
	4-bromochlorobenzene	98%

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

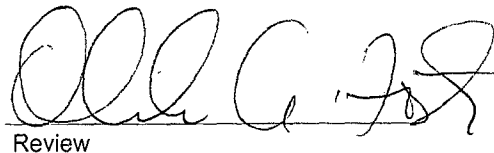
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0200	0.0200	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0040	0.0039	0.0001	0.6%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: 24803
Sample Matrix: TCLP Extract
Analysis Requested: TCLP
Condition: N/A

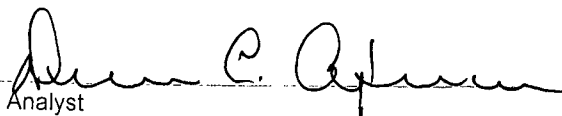
Project #: N/A
Date Reported: 02-14-03
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 02-13-03
Date Extracted: 02-12-03

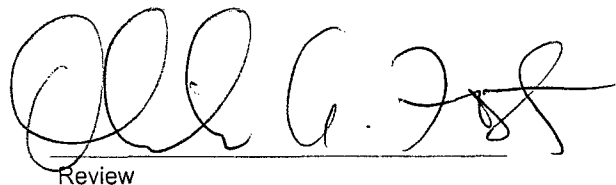
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.0200	0.050	0.0698	0.0001	99.7%	47-132
Chloroform	ND	0.050	0.0500	0.0001	99.9%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98.0%	43-143
Benzene	0.0040	0.050	0.0538	0.0001	99.6%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040

PHENOLS

Quality Assurance Report

Laboratory Blank

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

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

ND - Parameter not detected at the stated detection limit.

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

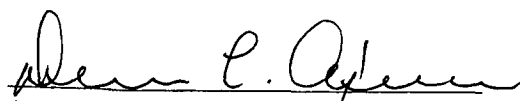
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

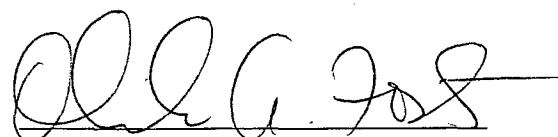
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040

PHENOLS

Quality Assurance Report

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

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

ND - Parameter not detected at the stated detection limit.

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

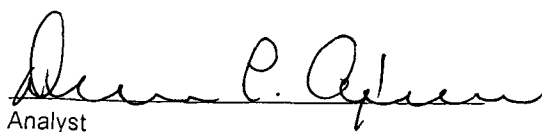
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

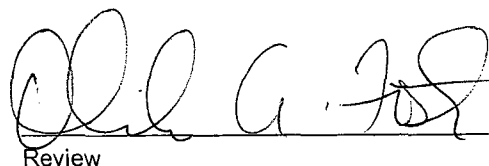
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

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

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

ND - Parameter not detected at the stated detection limit.

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

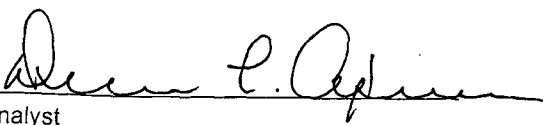
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

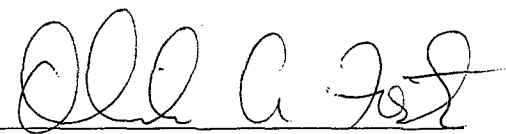
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Laboratory Blank
Laboratory Number: 02-13-TBN
Sample Matrix: Hexane
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 02-14-03
Date Sampled: N/A
Date Received: N/A
Date Extracted: N/A
Date Analyzed: 02-13-03
Analysis Requested: TCLP

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

ND - Parameter not detected at the stated detection limit.

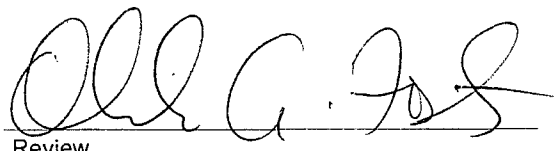
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	101%

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

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

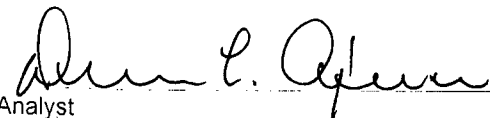
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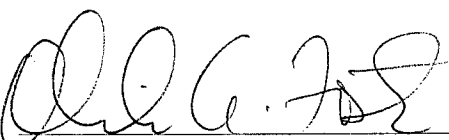
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

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

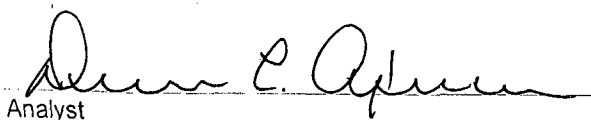
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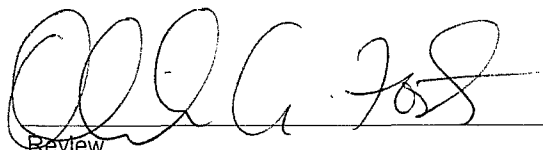
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

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

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

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


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

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

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

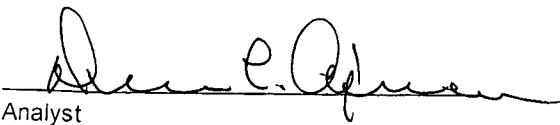
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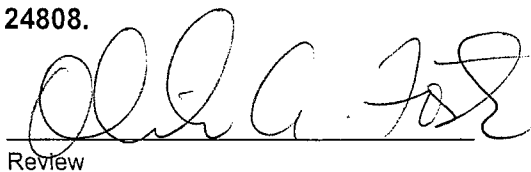
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

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


Analyst


Review

10619

[illegible]

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator ELPASO FIELD SERVICE
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site CHACO PLANT
3. Address of Facility Operator #345 CR 3500 AZTEC NEW MEXICO	6. Transporter KEY ENERGY
7. Location of Material (Street Address or ULSTR) SW/4, SEC16, T26N, R12W San Juan Co., NM	8. State 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:

CONTACT WASTE WATER FROM GAS PLANT OPERATIONS.

ANNUAL RENEWAL FOR 2003



Estimated Volume 500-1000BBLs PER MONTH Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Michael Talovich
Waste Management Facility Authorized Agent

TITLE: MANAGER DATE: 1-13-03

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Denny Fount TITLE: Enviro/Engr DATE: 1/27/03
APPROVED BY: Mark J. Kelly TITLE: Environmental Geologist DATE: 1/29/03

2-305210

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name: Key Energy Services, Inc. Disposal Well – 345 CR 3500 Farmington, NM
3. Originating Site (name): Chaco Plant	Location of Waste(Street address &/or ULSTR): SW/4 of Section 16, T26N, R12W, San Juan Co., NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste Contact waste water from Cryogenic Plant and Compressor Station operations	

I, David Bays representative for:
(Print Name)

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

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

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

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

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

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: January 6, 2003

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Services	Project #:	97057-072
Sample ID:	Waste Water Tank	Date Reported:	12-06-02
Lab ID#:	24358	Date Sampled:	12-05-02
Sample Matrix:	Water	Date Received:	12-05-02
Preservative:	Cool	Date Analyzed:	12-06-02
Condition:	Cool and Intact	Chain of Custody:	10447

Parameter	Result
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IGNITABILITY: Negative

CORROSIVITY: Negative pH = 5.10

REACTIVITY: Negative

RCRA Hazardous Waste Criteria

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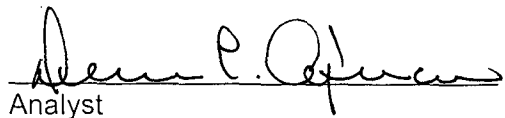
IGNITABILITY: Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.
(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

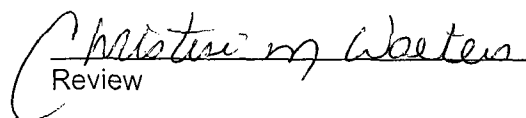
CORROSIVITY: Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.
(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY: Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23.
(i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

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

Comments: Chaco Plant.


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Services	Project #:	97057-072
Sample ID:	Waste Water Tank	Date Reported:	12-06-02
Laboratory Number:	24358	Date Sampled:	12-05-02
Chain of Custody:	10447	Date Received:	12-05-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-06-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.114	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.447	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

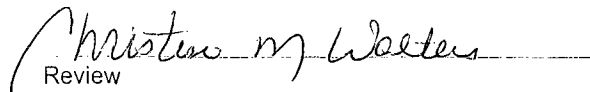
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

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

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

Comments: **Chaco Plant.**


Analyst


Review

Client:	El Paso Field Services	Project #:	97057-072
Sample ID:	Waste Water Tank	Date Reported:	12-10-02
Laboratory Number:	24358	Date Sampled:	12-05-02
Chain of Custody:	10447	Date Received:	12-05-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-10-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

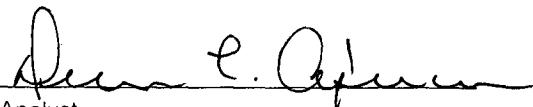
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

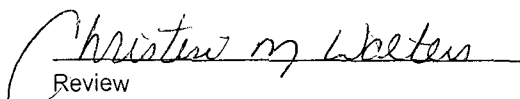
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: Chaco Plant.


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Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Services	Project #:	97057-072
Sample ID:	Waste Water Tank	Date Reported:	12-10-02
Laboratory Number:	24358	Date Sampled:	12-05-02
Chain of Custody:	10447	Date Received:	12-05-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-10-02
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.125	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

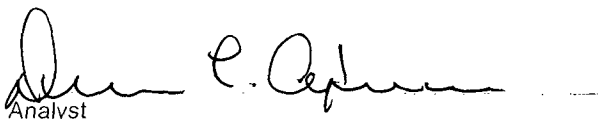
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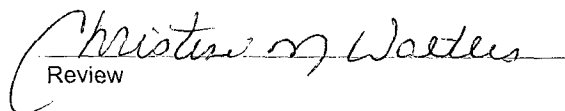
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

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

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

Comments: Chaco Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	El Paso Field Services	Project #:	97057-072
Sample ID:	Waste Water Tank	Date Reported:	12-06-02
Laboratory Number:	24358	Date Sampled:	12-05-02
Chain of Custody:	10447	Date Received:	12-05-02
Sample Matrix:	Water	Date Analyzed:	12-06-02
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.017	0.001	5.0
Barium	2.39	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	0.006	0.001	5.0
Lead	0.004	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.009	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

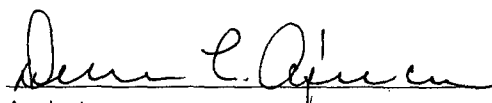
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

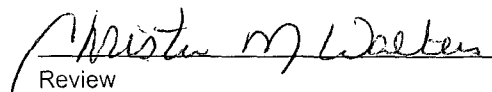
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Chaco Plant.**


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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-06-02
Laboratory Number:	12-06-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-06-02
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

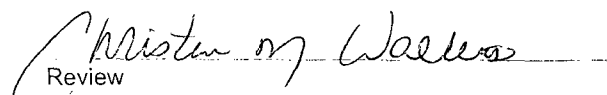
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

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

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

Comments: QA/QC for sample 24358.


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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: 24358
Sample Matrix: Water
Analysis Requested: TCLP
Condition: N/A

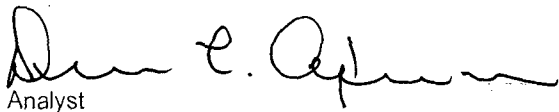
Project #: N/A
Date Reported: 12-06-02
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 12-06-02
Date Extracted: N/A

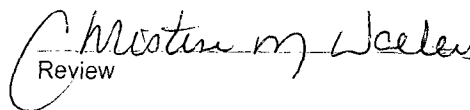
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.114	0.114	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.447	0.454	0.0001	1.6%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample 24358.


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Spike
Laboratory Number: 24358
Sample Matrix: Water
Analysis Requested: TCLP
Condition: N/A

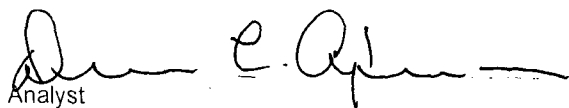
Project #: N/A
Date Reported: 12-06-02
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 12-06-02
Date Extracted: N/A

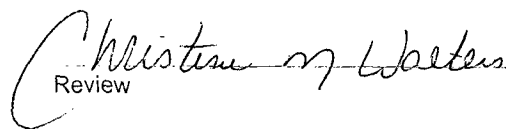
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.114	0.050	0.1640	0.0001	99.9%	47-132
Chloroform	ND	0.050	0.0500	0.0001	99.9%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98.0%	43-143
Benzene	0.447	0.050	0.496	0.0001	99.8%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample 24358.


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040

PHENOLS

Quality Assurance Report

Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-10-02
Laboratory Number:	12-10-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-10-02
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

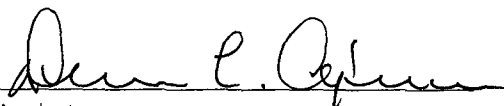
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

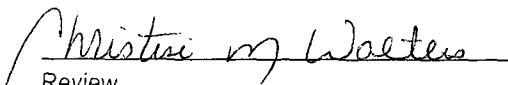
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample 24358.


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040

PHENOLS

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-10-02
Laboratory Number:	12-09-TCA	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-10-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

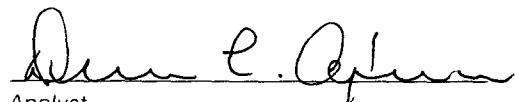
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

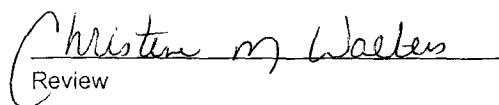
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample 24358.


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040

PHENOLS

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-10-02
Laboratory Number:	24358	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-10-02
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

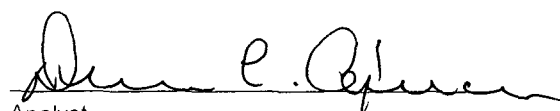
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

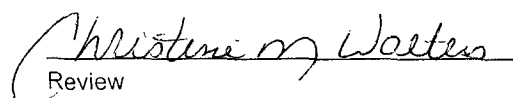
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample 24358.


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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-10-02
Laboratory Number:	12-10-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-10-02
		Analysis Requested:	TCLP

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

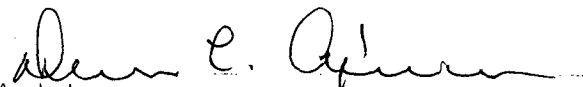
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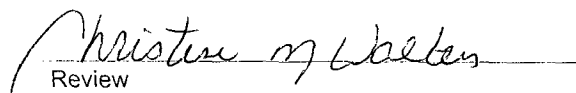
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

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

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

Comments: QA/QC for sample 24358.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Method Blank
Laboratory Number: 12-09-TBN
Sample Matrix: Water
Preservative: Cool
Condition: Cool and Intact

Project #: N/A
Date Reported: 12-10-02
Date Sampled: N/A
Date Received: N/A
Date Extracted: N/A
Date Analyzed: 12-10-02
Analysis Requested: TCLP

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

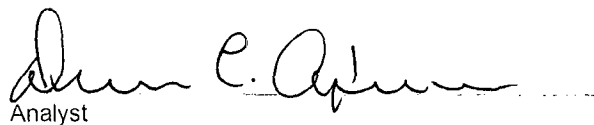
ND - Parameter not detected at the stated detection limit.

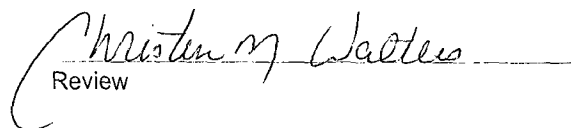
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	102%

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

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

Comments: QA/QC for sample 24358.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: 24358
Sample Matrix: Water
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 12-10-02
Date Sampled: N/A
Date Received: N/A
Date Extracted: N/A
Date Analyzed: 12-10-02
Analysis Requested: TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.125	0.124	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

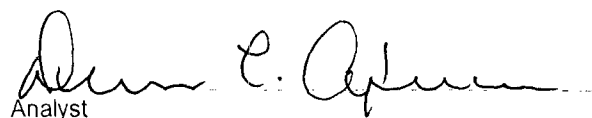
ND - Parameter not detected at the stated detection limit.

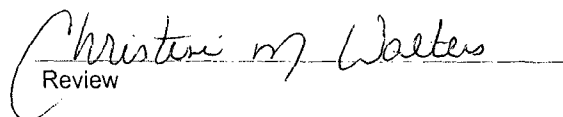
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

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

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

Comments: QA/QC for sample 24358.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	12-06-TCM QA/QC	Date Reported:	12-06-02
Laboratory Number:	24357	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	12-06-02
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.017	0.017	0.0%	0% - 30%
Barium	ND	ND	0.001	2.39	2.37	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Lead	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.009	0.009	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.017	0.516	99.8%	80% - 120%
Barium	0.500	2.39	2.86	99.0%	80% - 120%
Cadmium	0.500	0.003	0.502	99.8%	80% - 120%
Chromium	0.500	0.006	0.505	99.8%	80% - 120%
Lead	0.500	0.004	0.503	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.009	0.507	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

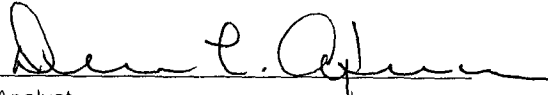
ND - Parameter not detected at the stated detection limit.

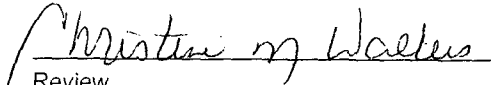
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

Comments: QA/QC for sample 24358.


Analyst


Review

10447

ENVIROTECH INC.

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

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator OIL AND GAS EQUIPMENT
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site SHOP SUMP
3. Address of Facility Operator #345 CR 3500 AZTEC NM	6. Transporter KEY
7. Location of Material (Street Address or ULSTR) 4910 E. Main Farmington NM	8. State NM
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

HOT BATH FOR CLEANING GLYCOL PUMPS AND VALVES USED ON OILFIELD PRODUCTION EQUIPMENT.
CITY WATER MIXED WITH CLEANING AGENTS AND NEUTRALIZER. SEE ATTACHED MSDS

LAST FILED 7-23-02



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

SIGNATURE Michael Talovich TITLE: FACILITY MANAGER DATE: 1-20-03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY: Denny Fount TITLE: Enviro/Engr DATE: 1/27/03
APPROVED BY: Martinez TITLE: Environmental Geologist DATE: 1/29/03

012903-1

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Oil & Gas Equipment 4910 E. main Farmington N.H. 87402	2. Destination Name: KEY ENERGY DISPOSAL
3. Originating Site (name): Same	Location of the Waste (Street address &/or ULSTR): Same
Attach list of originating sites as appropriate	
4. Source and Description of Waste Hot Bath for cleaning glycol pumps & valves used on oil field production equipment	

I, Bob Lefkovich representative for:
Oil & Gas Equipment Corp. do hereby certify that, according
to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1998, regulatory
determination, the above-described waste is: (Check appropriate classification)

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

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

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

☒ MSDS Information ☒ Other (description):
☐ RCRA Hazardous Waste Analysis P.H. = 8
☐ Chain of Custody

Name (Original Signature): Bob Lefkovich
Title: Pump Shop Foreman
Date: 1-17-03



**THE REPRODUCTION OF
THE
FOLLOWING
DOCUMENT (S)
CANNOT BE IMPROVED
DUE TO
THE CONDITION OF
THE ORIGINAL**



CLEAN ACROSS AMERICA AND
THROUGHOUT THE WORLD™

ZEP MANUFACTURING COMPANY
P.O. BOX 2015
ATLANTA, GEORGIA 30301

MATERIAL SAFETY DATA SHEET AND SAFE HANDLING AND STORAGE INFORMATION

ISSUE DATE: 02/01/89

SUPERSEDES: 12/30/88

Date printed: 11/17/99

ZEP VAT NEUTRALIZER

Product No: 1465 Vat Neutralizer

SECTION I - EMERGENCY CONTACTS

TELEPHONE: (404) 352-1680 BETWEEN 8:00 AM - 5:00 PM (EST)
MEDICAL EMERGENCY: (770) 439-4200 NON OFFICE HOURS, WEEKENDS
(770) 432-2873 AND HOLIDAYS, PLEASE CALL YOUR
(770) 455-8160 LOCAL POISON CONTROL
(770) 552-8836
(770) 424-2048
(770) 424-4789
TRANSPORTATION EMERGENCY: (770) 922-0923
CHEMTREC: (800) 424-9300 TOLL FREE - ALL CALLS RECORDED
DISTRICT OF COLUMBIA: (202) 483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	(PPM)	EFFECTS (SEE NOTICE)	% IN PROD.
@ ** SULFURIC ACID ** oil of vitriol; CAS# 7664-93-9; RTECS# WS5600000; OSHA PEL-1 mg/m3 (for mists only).	0.25	TOX COR	60-70

@ IDENTIFIES CHEMICALS LISTED UNDER SARA-SECTION 313 FOR RELEASE REPORTING.

SECTION III - HEALTH HAZARD DATA

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

ACUTE EFFECTS OF OVEREXPOSURE:

Corrosive to skin and eyes on contact. Eye contact can produce corneal damage or blindness. Skin contact can produce inflammation, reddening, and blistering. Inhalation of spray mist or vapors may produce irritation, burning, or destruction of tissues in the respiratory tract, characterized by coughing choking, pain, or shortness of breath. Severe overexposure may lead to fatal lung damage. Ingestion can cause abdominal pain, nausea, vomiting, and collapse, along with tissue destruction in the gastrointestinal tract.

CHRONIC EFFECTS OF OVEREXPOSURE:

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

EST'D PEL/TLV: Not established PRIMARY ROUTES OF ENTRY: I/A

HMIS CODES: HEALTH 3; FLAM. 0; REACT. 2; PERS. PROTECT. G ; CHRONIC HAZ. YES

FIRST AID PROCEDURES:

SKIN: Immediately flush contaminated skin with plenty of water for at least 15 minutes. Get medical attention immediately.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once.

INHALE: Move exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Get medical attention immediately.

INGEST: If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once.

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING: Wear rubber or neoprene gloves and a face shield when using. A rubber apron and boots are strongly recommended.

EYE PROTECTION: Wear splash-proof safety goggles especially if contact lenses are worn.

RESPIRATORY PROTECTION: If ventilation is inadequate, wear a properly fitting MSHA or OSHA-approved respirator.

VENTILATION: If vapors are detected, ventilate work area by opening windows and using exhaust fans.

SECTION V - PHYSICAL DATA

BOILING POINT (F):	~ 220	SPECIFIC GRAVITY:	1.55
VAPOR PRESSURE(mmHg):	N/A	EVAPORATION RATE (= 1):	N/A
VAPOR DENSITY(AIR = 1):	N/A	PH(CONCENTRATE):	< 1.0
SOLUBILITY IN WATER:	COMPLETE	PH(USE DILUTION OF 1% SOLUTION):	1.0
VOC CONTENT (CONCENTRATE):	0.0%		
APPEARANCE AND ODOR: A COLORLESS LIQUID WITH NO ODOR:			

(Continued on Page: 2)

MATERIAL SAFETY DATA SHEET

SECTION I —
PRODUCT IDENTIFICATION

KRYLON INDUSTRIAL
3160 BOLON ROAD
BOLOM, OH 44189

EMERGENCY TELEPHONE NO.
(218) 292-7400
INFORMATION TELEPHONE NO.
(800) 247-3266

DATE OF PREPARATION
20 - JUL - 94
©1994, The Sherwin-Williams Co.

Primers

PRIMER/KRI

SECTION II — HAZARDOUS INGREDIENT (Quantities by weight)

CAS No.	ACGIH TLV <STEL>	OSHA PEL <STEL>	Units (mg/m ³)	Vapor Pressure (mmHg)	1340 Zinc Rich	1355 White	1357 Rusky Brown	1358 Gray	1345 Yellow	1346 Green	1373 Sandlike Filler Surface Primer
74-85-6 Propylene (propellant)		1000	PPM	780.0	15	17	17	17	18	16	10
74-85-6 V.M. & P. Naphthalene		300	<400> PPM	12.0	1						4
74-85-6 Toluene		50	<150> PPM (Skin)	22.0		23	27	27	0	6	
74-85-6 Xylene		100	<150> PPM	5.0	10				12	12	18
74-85-6 Ethylmethyl-1-Propanol		50	50 PPM	6.7							2
74-85-6 Methyl Ethyl Ketone		200	200 PPM	70.0	34						
74-85-6 Acetone		750	750 PPM	760.0		34	34	34	48	48	41
74-85-6 Zinc		Not Established			36						
74-85-6 Tin		2	2 Mg/m ³ Dust Mg/m ³ as Dust (Resp. Fraction)						5	5	9
74-85-7 Titanium Dioxide		10	1051			6		3			1
74-85-1 Zinc Molybdate		Not Established							2	2	
VOC as a percent by weight per BAACMD Rule 40					69	82	80	82	83	83	82
MFPA Code 308 Level					3	3	3	3	3	3	3
Hazard Ratings (Toxicity - Flammability - Reactivity)					2 + 0	2 + 0	2 + 0	2 + 0	2 + 0	2 + 0	2 + 0

Supplement subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.85 C

Primers

PRIMER/RR1

Section III — PHYSICAL DATA

PROPERTY NAME - R.A.
 SPECIFIC GRAVITY - R.A.
 DENSITY - 1.0-1.05 g/cm³
 VAPOR DENSITY - Heavier than Air
 REFRACTIVE INDEX - R.A.

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CHARACTERIZATION - FLAM POINT - 40 °F PHCC - LEL - 1.0 UEL - 12.8
 FLASH POINT - 38 °F
 AUTO-IGNITION TEMPERATURE - 300 °F
 EXHAUSTION TEMPERATURE - 300 °F

Section V — HEALTH HAZARD DATA
 Section VI — REACTIVITY DATA

Section VII — PROTECTION INFORMATION
 Section VIII — SPILL OR LEAK PROCEDURES

Section IX — PRECAUTIONS
 Section X — OTHER REGULATORY INFORMATION

Section XI — ADDITIONAL INFORMATION
 Section XII — REFERENCES

Section XIII — NOTES
 Section XIV — INDEX

Section XV — GLOSSARY
 Section XVI — APPENDICES

Section XVII — ADDITIONAL INFORMATION
 Section XVIII — REFERENCES

Section VII — PROTECTION INFORMATION

Section VIII — SPILL OR LEAK PROCEDURES
 Section IX — PRECAUTIONS

Section X — OTHER REGULATORY INFORMATION
 Section XI — ADDITIONAL INFORMATION

Section IX — PRECAUTIONS

Section X — OTHER REGULATORY INFORMATION
 Section XI — ADDITIONAL INFORMATION

Section X — OTHER REGULATORY INFORMATION

Section XI — ADDITIONAL INFORMATION
 Section XII — REFERENCES

Section XIII — NOTES
 Section XIV — INDEX

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	Triethylene Glycol Reprocessed	Code	83101
Supplier	COASTAL CHEMICAL CO., L.L.C. 3520 Veterans Memorial Drive ABBEVILLE, LA 70610 318-893-3862	MSDS#	Not available.
Synonym	Not available.	Validation Date	8/2/94
Trade name	Not available.	Print Date	5/12/99
Material Uses	Not available.	In case of Emergency	Transportation Emergency Call CHEMTREC 800-424-9300 Other Information Call Joe Hudman 713-477-8675
Manufacturer	Various		

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Diethylene glycol	111-48-6	0-5	Not available.	ORAL (LD ₅₀) mg/kg: Acute: 12565 (Hamster), 14800 (Rat). DERMAL (LD ₅₀) mg/kg: Acute: 11890 (Hamster), 11900 (Rabbit).
Triethylene Glycol	112-27-6	95-100		

Section 3. Hazards Identification

Emergency Overview	CAUTION! MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.
Routes of Entry	Eye contact. Ingestion. Skin contact. Inhalation.
Potential Acute Health Effects	Slightly dangerous to dangerous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. This product may irritate eyes and skin upon contact.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. The substance is toxic to blood, kidneys, liver. Toxicity of the product to the reproductive system: Not available. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: 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.
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous Inhalation	No additional information.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

Continued on Next Page

Triethylene Glycol Reprocessed

Page Number: 2

Hazardous 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 medical attention.

Section 5. Fire and Explosion Data

Flammability of the Product	Combustible.
Auto-Ignition Temperature	The lowest known value is 227.78°C (442°F) (Diethylene glycol).
Flash Points	The lowest known value is CLOSED CUP: 138°C (280.4°F) OPEN CUP: 143°C (280.4°F) (Cleveland) (Diethylene glycol)
Flammable Limits	The greatest known range is LOWER: 2% UPPER: 12.3% (Diethylene glycol)
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Very slightly to slightly flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Special Remarks on Fire Hazards	When heated to decomposition, it emits acid smoke and irritating fumes. (Diethylene glycol)
Special Remarks on Explosion Hazards	No additional remark.

Section 6. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Handling	Not available.
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. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.	
Personal Protection	Safety glasses. Lab coat. Gloves (impervious).	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Chemical Name or Product Name	CAS #	Exposure Limits
2,2'-Oxydiethanol	111-46-0	No available.
Triethylene Glycol	112-27-6	

Continued on Next Page

Triethylene Glycol Reprocessed

Page Number: 3

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Neutral.	Color	Not available.
Boiling Point	The lowest known value is 246.8°C (474.4°F) (Diethylene glycol). Weighted average: 284.02°C (543.2°F)		
Melting Point/Four Point	May start to solidify at -5°C (23°F) based on data for: Triethylene Glycol. Weighted average: -6.09°C (22.8°F)		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 1.12 (Water = 1)		
Vapor Pressure	The highest known value is 0.01 mm of Hg (@ 20°C) (Diethylene glycol).		
Vapor Density	The highest known value is 6.7 (Air = 1) (Tetraethylene glycol). Weighted average: 6.7 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation rate	Not available.		
Viscosity	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Turbidity (in Water)	Not available.		
Dispersion Properties	See solubility in water, methanol, diethyl ether.		
Solubility	Easily soluble in cold water, hot water, methanol, diethyl ether.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with various substances	Very slightly to slightly reactive with oxidizing agents.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Not available.

Section 11. Toxicological Information

Toxicity to Animals	Acute oral toxicity (LD50): > 5000 mg/kg (Hamster.) (Calculated value for the mixture). Acute dermal toxicity (LD50): > 5000 mg/kg (Hamster.) (Calculated value for the mixture).
Chronic Effects on Humans	The substance is toxic to blood, kidneys, liver. Toxicity of the product to the reproductive system: Not available.
Other Toxic Effects on Humans	Slightly dangerous to dangerous in case of skin contact (irritant, permealor), of eye contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on other Toxic Effects on Humans	Experimentally tumorigen by inhalation. Exposure can cause nausea, headache and vomiting. (Diethylene glycol)

Continued on Next Page

Triethylene Glycol Rprocessed

Page Number: 4

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information

Propper Shipping Name	NONE
DOT Classification	Not a DOT-controlled material (United States).
DOT Identification Number	Not applicable (PIN and PG).
Packing Group	NONE
Hazardous Substances Reportable Quantity (kg)	Not available.
Special Provisions for Transport	Not applicable.

Section 15. Regulatory Information

Federal and State Regulations The following product(s) is (are) listed by the State of Minnesota: Diethylene glycol

Other Classifications	WHMIS (Canada)	Not controlled under WHMIS (Canada).
	DSCI (EEC)	Not controlled under DSCI (Europe).

Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)

Health



Fire Hazard

Reactivity

Specific Hazard

References Not available.

Other Special Considerations No additional remark.

Validated by Joe Hudman on 8/8/96.

Verified by Joe Hudman.

Printed 5/12/99.

Transportation Emergency Call
 CHEMTREC 800-424-9300
 Other Information Call
 Joe Hudman
 713-477-6675

Continued on Next Page

Triethylene Glycol Reprocessed

Page Number: 5

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither we above named neither any of our subsidiaries accept any liability whatsoever for the accuracy or completeness of the information contained herein. The dissemination of any material is the sole responsibility of the user. All materials may contain errors and should be used with caution. Although certain reports are classified herein, we warrant that they are the only records that exist.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

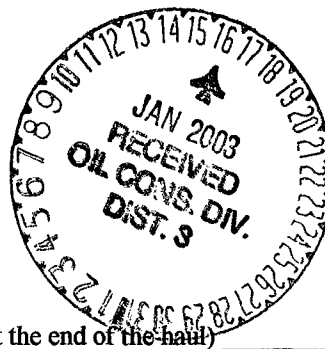
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ☐ Verbal Approval Received: Yes ☐ No ☒	4. Generator HALLIBURTON
2. Management Facility Destination KEY ENERGY DISPOSAL	5. Originating Site YARD STORAGE TANK
3. Address of Facility Operator #345 CR 3500 AZTEC NM	6. Transporter KEY
7. Location of Material (Street Address or ULSTR) 4109 EAST MAIN FARMINGTON, NM 87402	8. State 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:

RETURNED FRAC FLUID THAT IS STORED IN WHAT IS REFERRED TO AS THE JUNK WATER TANK.

LAST FILED 10-26-02



Estimated Volume 160 BBLS _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE

Waste Management Facility Authorized Agent

TITLE: FACILITY MANAGER DATE: 1-14-03

TYPE OR PRINT NAME: MICHAEL TALOVICH TELEPHONE NO. 505-334-6416

(This space for State Use)

APPROVED BY:

TITLE:

DATE:

APPROVED BY:

TITLE:

DATE:

District I - (505) 393-6101
1625 N. French Dr
Hobbs, NM 88240
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131
2040 S. Pacheco
Santa Fe, NM 87505

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

Form C-143
3/15/00

Submit to OCD
Permitted Surface
Waste Management
Facility

GENERATOR CERTIFICATE OF WASTE STATUS

1. Waste Generator Name and Address:

Halliburton Energy Services
4109 E Main ST
Farmington, NM 87402

2. Permit Number (if waste generated at an OCD permitted facility)

3. Description of Waste and Generating Process:

Return Frac Fluids That
were stored in what is
referred to as a Junk water
Tank That was sampled
12/10/02

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

Halliburton Energy Services
4109 E Main ST
Farmington NM, 87402

5. Destination (Surface Waste Management Facility):

Key Energy Services

6. Transporter:

Key Energy

7. Estimated Volume 160 cy/bbls

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

☐ MSDS Information

☐ RCRA Hazardous Waste Analysis (With Chain of Custody).

☒ Other (Description) Knowledge of Process & Filed previously
Refer to certificate # 3

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

☐ EXEMPT oilfield waste.

☒ NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation)

In addition, Generator certifies that nothing has been added to this exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

Generator Signature: Merle D. Kruse Date: _____

Print Name: Merle D. Kruse

Title: Material Supervisor

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	D - 1	Date Reported:	12-16-02
Lab ID#:	24415	Date Sampled:	12-12-02
Sample Matrix:	Water	Date Received:	12-12-02
Preservative:	Cool	Date Analyzed:	12-16-02
Condition:	Cool and Intact	Chain of Custody:	10465

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

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 10.1

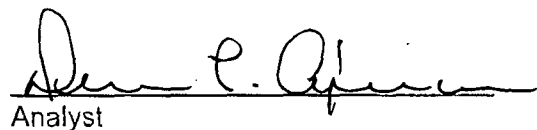
REACTIVITY: Negative

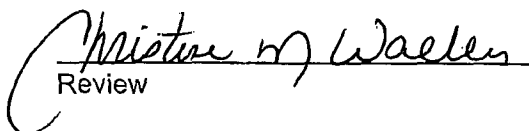
RCRA Hazardous Waste Criteria

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

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

Comments: Halliburton Bulk Plant.


Analyst


Review

ENVIROTECH LABS**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS**

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	D - 1	Date Reported:	12-16-02
Laboratory Number:	24415	Date Sampled:	12-12-02
Chain of Custody:	10465	Date Received:	12-12-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-16-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0129	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0459	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria

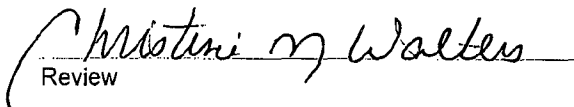
Parameter	Percent Recovery
Fluorobenzene	100%
1,4-difluorobenzene	100%
4-bromochlorobenzene	100%

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

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

Comments: **Halliburton Bulk Plant.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	D - 1	Date Reported:	12-17-02
Laboratory Number:	24415	Date Sampled:	12-12-02
Chain of Custody:	10465	Date Received:	12-12-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-17-02
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	0.101	0.040	200
2,4,6-Trichlorophenol	0.273	0.020	2.0
2,4,5-Trichlorophenol	0.401	0.020	400
Pentachlorophenol	0.375	0.020	100

ND - Parameter not detected at the stated detection limit.

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

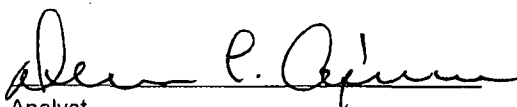
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

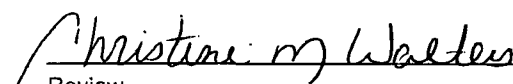
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: Halliburton Bulk Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	D - 1	Date Reported:	12-17-02
Laboratory Number:	24415	Date Sampled:	12-12-02
Chain of Custody:	10465	Date Received:	12-12-02
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-17-02
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	0.149	0.020	3.0
Nitrobenzene	0.022	0.020	2.0
Hexachlorobutadiene	0.054	0.020	0.5
2,4-Dinitrotoluene	0.046	0.020	0.13
HexachloroBenzene	0.021	0.020	0.13

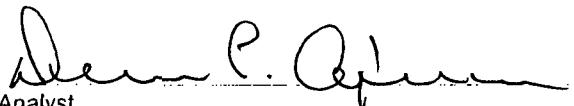
ND - Parameter not detected at the stated detection limit.

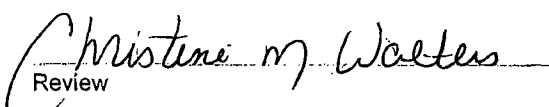
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

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

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

Comments: Halliburton Bulk Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	D - 1	Date Reported:	12-16-02
Laboratory Number:	24415	Date Sampled:	12-12-02
Chain of Custody:	10465	Date Received:	12-12-02
Sample Matrix:	Water	Date Analyzed:	12-16-02
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.041	0.001	5.0
Barium	0.862	0.001	100
Cadmium	0.004	0.001	1.0
Chromium	0.002	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.030	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

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

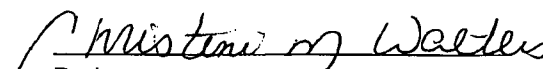
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: Halliburton Bulk Plant.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS
Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-16-02
Laboratory Number:	12-16-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-16-02
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

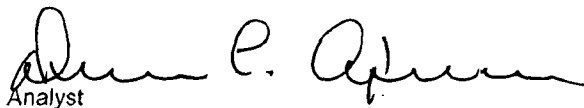
QA/QC Acceptance Criteria

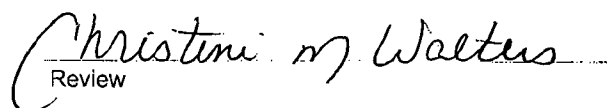
Parameter	Percent Recovery
Fluorobenzene	100%
1,4-difluorobenzene	100%
4-bromochlorobenzene	100%

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

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

Comments: QA/QC for sample 24415.


Analyst


Review

ENVIROTECH LABS**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS
QUALITY ASSURANCE REPORT**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-16-02
Laboratory Number:	24415	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-16-02
Condition:	N/A	Date Extracted:	N/A

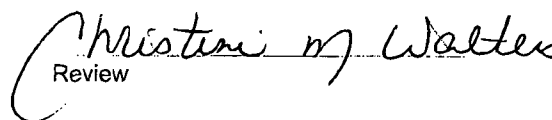
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0129	0.0131	0.0001	1.1%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0459	0.0456	0.0001	0.6%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample 24415.


Analyst


Review

ENVIROTECH LABS**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHODS 8010/8020
AROMATIC / HALOGENATED
VOLATILE ORGANICS
QUALITY ASSURANCE REPORT**

Client: QA/QC
 Sample ID: Matrix Spike
 Laboratory Number: 24415
 Sample Matrix: Water
 Analysis Requested: TCLP
 Condition: N/A

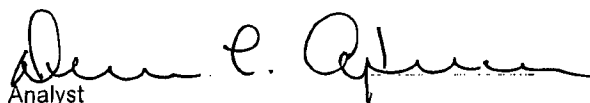
Project #: N/A
 Date Reported: 12-16-02
 Date Sampled: N/A
 Date Received: N/A
 Date Analyzed: 12-16-02
 Date Extracted: N/A

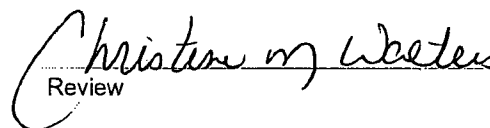
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99.0%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	98.8%	43-143
2-Butanone (MEK)	0.0129	0.050	0.0627	0.0001	99.7%	47-132
Chloroform	ND	0.050	0.0500	0.0001	99.9%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98.0%	43-143
Benzene	0.0459	0.050	0.0957	0.0001	99.8%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98.0%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99.0%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99.0%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99.0%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99.0%	42-143

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for sample 24415.


 Analyst


 Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**EPA METHOD 8040****PHENOLS****Quality Assurance Report
Laboratory Blank**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-17-02
Laboratory Number:	12-17-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-17-02
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

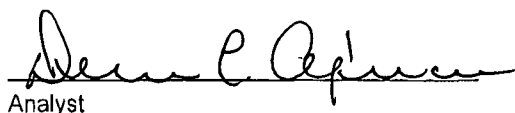
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

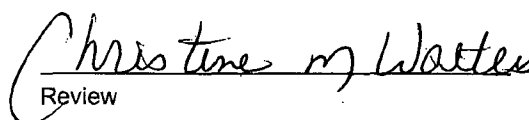
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample 24415.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-17-02
Laboratory Number:	24415	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-17-02
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	0.101	0.099	0.040	2.0%
2,4,6-Trichlorophenol	0.273	0.270	0.020	1.0%
2,4,5-Trichlorophenol	0.401	0.397	0.020	1.1%
Pentachlorophenol	0.375	0.372	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
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8040 Compounds	30.0%
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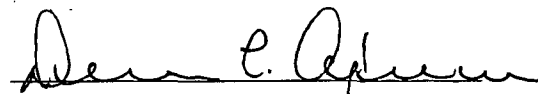
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

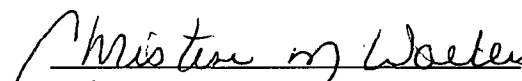
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for sample 24415.


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
Sample ID: Laboratory Blank
Laboratory Number: 12-17-TBN
Sample Matrix: Hexane
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 12-17-02
Date Sampled: N/A
Date Received: N/A
Date Extracted: N/A
Date Analyzed: 12-17-02
Analysis Requested: TCLP

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

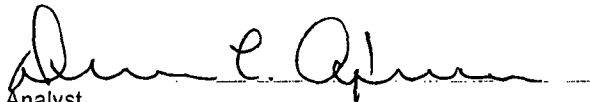
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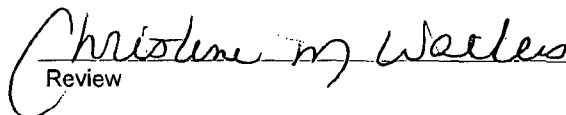
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

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

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

Comments: QA/QC for sample 24415.


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
 Sample ID: Matrix Duplicate
 Laboratory Number: 24415
 Sample Matrix: Water
 Preservative: N/A
 Condition: N/A

Project #: N/A
 Date Reported: 12-17-02
 Date Sampled: N/A
 Date Received: N/A
 Date Extracted: N/A
 Date Analyzed: 12-17-02
 Analysis Requested: TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	0.149	0.148	1.0%	0.020
Nitrobenzene	0.022	0.022	0.0%	0.020
Hexachlorobutadiene	0.054	0.053	1.1%	0.020
2,4-Dinitrotoluene	0.046	0.046	0.0%	0.020
HexachloroBenzene	0.021	0.021	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

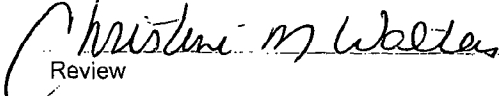
QA/QC Acceptance Criteria**Parameter****Maximum Difference****8090 Compounds****30%**

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

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

Comments: QA/QC for sample 24415.


 Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client: QA/QC
 Sample ID: 12-16-TCM QA/QC
 Laboratory Number: 24415
 Sample Matrix: Water
 Analysis Requested: TCLP Metals
 Condition: N/A

Project #: N/A
 Date Reported: 12-16-02
 Date Sampled: N/A
 Date Received: N/A
 Date Analyzed: 12-16-02
 Date Extracted: N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.041	0.040	2.4%	0% - 30%
Barium	ND	ND	0.001	0.862	0.860	0.2%	0% - 30%
Cadmium	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.030	0.030	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.041	0.540	99.8%	80% - 120%
Barium	0.500	0.862	1.35	99.1%	80% - 120%
Cadmium	0.500	0.004	0.503	99.8%	80% - 120%
Chromium	0.500	0.002	0.501	99.8%	80% - 120%
Lead	0.500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.030	0.528	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

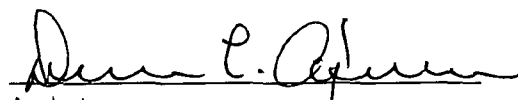
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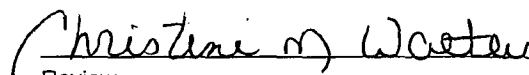
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

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

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

Comments: QA/QC for samples 24415 - 24416.


 Analyst


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