# NM1-11

**C-138** 

**Date: 2001** 

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

District IV - (505) 827-7131

c, NM 87410 مندر

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 98059-001

The second section of the second section of the second section of the second section of the second section section sections and the second section sections are second sections as the second section				
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
1. RCRA Exempt: Non-Exempt:	4. Generator Compression			
Verbal Approval Received: Yes 🔲 No 🗵	5. Originating Site La Plada 8-1			
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eavisoteal			
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Dan Mayorco			
7. Location of Material (Street Address or ULSTR)	NEY Sec B, T31N, R13W SAD Juan County Day			
9. Circle One:				
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceded Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	empanied by necessary chemical analysis to			
All transporters must certify the wastes delivered are only those consigned	for transport.			
BRIEF DESCRIPTION OF MATERIAL:				
Mobile Pegasus 805 leche oil Spill classes				
Mobile Pegasus 805 leche ail Spill classings Compressor/bas luba ail contact 56789				
Missedinitially by Envivotech Exercises				
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy				
SIGNATURE: Howloom Brown TITLE: Landfarm Manager DATE: 06.26.01				
Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	EPHONE NO. 505-632-0615			
(This space for State Use)				



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
JUINERSAL COMPRESSION 3440 MORNING STAR DRIVE	Envirotech
FARMingTon, N.M. 87401	LAND FARM 2
The state of the s	LAND MINI Z
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
LAPLATA 8-1 NE 4 Sec. 8 T.S. 31N R 13W	
SANJUANCOUNTY N.M.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
4. Source and Description of Waste Lub Oil Leaked OFF Compre	SSON SKIDON ID GIOUND.
·	
·	
/	
1, Thomas Keny (Print Name)  (DA); VERSAL (Ampress; or	
Print Name)	representative for:
1) Wersal Compression	do hereby certify that,
according to the Resource Conservation and Reco	overy Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above describe	ed waste is: (Check appropriate classification)
	CEMPT oilfield waste which is non-hazardous by characteristic s 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 docume	ntation 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.	of Indianally Containing Indianal India
Name (Original Signature):	
Title: Field Service Supervisor	
Date: 6-25-01	

Page 1 of 5



602466-00

#### 602466-00 MDBIL PEGASUS 805 MATERIAL SAFETY DATA BULLETIN / 1/

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and MSDS Information: 800-662-4525 609-224-4644

CHEMTREC:

#### 800-424-9300

202~483-7616

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET: HYDROCARBONS AND ADDITIVES INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. . It is not hazardous to health as defined by the European Union Dangerous

Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information. See Section 8 for exposure limits (1f applicable).

#### 3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous. EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. - NA

#### 4. FIRST AID MEASURES

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

SKIN CONTACT: Wash contact areas with soap and water. . .

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

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Page: 0'

Page 2 of 5

#### 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): 245(473)

(ASTM 0-92). Flammable limits - LEL: NE, UEL: NE.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.

#### 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, distomaceous 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 of unitabelled 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.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

What is the same of the same of

Page 3 of S

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Typical physical properties are given below. Consult Product Data Sheet
for specific details.
APPEARANCE: Liquid
COLOR: Light Amber
ODOR: Marketable
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): NE
MELTING POINT C(F): NA
FLASH POINT C(F): 245(473) (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: NE
VISCOSITY AT 40 C, cSt: 130.0
VISCOSITY AT 100 C, cSt: 13.5
                             13.5........
POUR POINT C(F): -12(10)
FREEZING POINT C(F): NE
                                   and profession of the
VOLATILE ORGANIC COMPOUND: NE
             NA=NOT APPLICABLE NE=NOT ESTABLISHED D-DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE
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#### 10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable
CONDITIONS TO AVOID: Extreme heat.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers,
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly
hydrocarbon fragments. Sulfur oxides and compounds.
HAZARDOUS POLYMERIZATION: Will not occur.

#### 11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

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

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

INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.

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

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

Severely solvent refined and severely hydrotreated mineral base oils

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·. (5.3)

Page: U

Page 4 of 5

have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rate 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.
---chronic Toxicology (SUMMARY)---

The base oils in this product are severely solvent refined and/or severaly hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

#### 13. DISPOSAL CONSIDERATIONS

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

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

#### 14. TRANSPORT INFORMATION

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

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

#### 15. REGULATORY INFORMATION

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

EU Labeling:

rtick , Symbol: \* EU labeling not required... Risk Phrase(s): R.

Safety Phrase(s): Not applicable.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chemicals-reportable under SARA (313) toxic release program.

Page: U

Page 5 of 5

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The following product ingredients are cited on the lists below:
 CHEMICAL NAME
                                         CAS NUMBER LIST CITATIONS
 ZINC (ELEMENTAL ANALYSIS) (0.04%)
                                         7440-66-6
 PHOSPHORODITHOIC ACID, 0,0-DI
                                         68649-42-3
 C1-14-ALKYL ESTERS, 2INC SALTS (2:
 1) (20DP)
            (0.33%)
                      --- REGULATORY LISTS SEARCHED ---
l=ACGIH ALL 6=IARC 1
2=ACGIH A1 7=IARC 2A
3=ACGIH A2 9~IARC 2B
                          __11-TSCA 4
                                         16-CA P65 CARC
                                                            21=LA RTK
                            12=TSCA 5a2 17=CA P65 REPRO
                                                           22-MI 293
                            13=TSCA 5e
                                                            23-MN RTK
                                          18-CA RTK
 4=NTP CARC
             9=OSHA CARC 14-TSCA 6
                                          19=FL RTK
                                                            24=NJ RTK
 5-NTP SUS
             10=OSHA Z
                            15=TSCA 12b 20-IL RTK
                                                            25=PA RTK
                                                            26-RI RTK
 Code key: CARC=Carcinogen: SUS#Suspected Carcinogen: REPRO=Reproductive
```

#### 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

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

For Internal Use Only: MHC: 0".0" NA 1\*.1\*, MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 970936, REQ: US - MARKETING, SAFE USE: L EHS Approval Date: 250CT1998 \*

Legally required information is given in accordance with applicable Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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District 4 - (505) 393-6161 P. O. Bal, 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First

811 S. First
Artesia, NM 88210

11 trict III - (505) 334-6178

1 Rio Brazos Road

1 C, NM 87410

District IV - (505) 827-7131

APPROVED BY

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN:

92142

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
1. RCRA Exempt: Non-Exempt: Denne Fox st 6.21-01	4. Generator PESCO			
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Repair			
2. Management Facility Destination $\begin{array}{c} {\rm Envirotech} & {\rm Soil} & {\rm Remedia.} \\ {\rm Facility} & {\rm Landfarm} & \#2 \end{array}$	6. Transporter Envirotech			
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Daw Marsico			
7. Location of Material (Street Address or ULSTR)	5686 US Hor 64 Parmington, Nay			
9. Circle One:				
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted accepted accepted accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to			
All transporters must certify the wastes delivered are only those consigned	d for transport.			
BRIEF DESCRIPTION OF MATERIAL:				
Solids gonerated during cleaning & refurbishing production Storage tanks, separators, dehydrators, and other production equipment				
Storage tanks, seperators, dehydrators, and other production equipment				
	JUN 2001 SECEIVED OILOON DW DIST 3			
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy				
SIGNATURE: Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615				
(This space for State Use)				

Jn: 92142

# **CERTIFICATE OF WASTE STATUS**

-	Consisted Name and Address:	La Destruit N
11.	Generator Name and Address:	2. Destination Name:
	PESCO	Fryirotoch Coil Romodichica Facilia
	5680 Highway 64	Envirotech Soil Remediation Facility Landfarm #2
	Farmington, New Mexico 87401	Hilltop, New Mexico
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
•	Process Equipment & Service Company	Mainyard, stored in 55 gallon drums
l	5680 US Highway 64	& 18 Cubic Foot Steel Boxes.
	Farmington, New Mexico 87401	
Ŀ	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	
	Solids generated from cleaning and res	furbishing production storage tanks,
	separators, dehydrators, and other pro	oduction equipment.
	•	•
ļ		
	1/- 10 1/3 cg. bornes	
	U ,	
ا.	Byron Betoni	representative for:
	(Print Name)	
	Process Equipment and Service Company,	
		Act (RCRA) and Environmental Protection Agency's July
198	3, regulatory determination, the above described w	/astells: (Check appropriate classification)
$\sqrt{}$	EXEMPT oilfield waste NON-EXEMI	PT oilfield waste which is non-hazardous by characteristic
/_		by product identification
	analysis of t	by product adminication
ind	that nothing has been added to the exempt or non-	-exempt non-hazardous waste defined above.
or 1	NON-EXEMPT waste only the following docume	intation is attached (check appropriate items):
	MSDS Information	Other (description):
	RCRA Hazardous Waste Analysis	
	Chain of Custody	•
lam	e (Original Signature): Bym B.L.	
īda	Repair Shop Supervisor	
) ata	(4/20/2001	<del></del>

The way of the

#### NORM SURVEY DATA SHEET

Facility / location.	PESW		_ Date:	4/20/2001
Meter Model: DOSIMI	ETER 3007A	Serial No: 9808-	-238	
Detector Model: DOSE	METER 3012	Serial No: 201-8	87-7100	
Calibration Date: 4-5-9	1006/20/20			
Battery Check: ( V				
Background Radiation	Level: 0-04	_mR/hr		
Description of material	surveyed:	este generate	d from	. The Steamer Pod
	Item	/ Material Su	rveyed:	
	<u>)</u> арргох. <del>gais</del> b		mR hr:	0.05
Description: Job No:				
Comments: Wa	ste from	Steam	Pad-	
Survey Conducted by:	Byron B (Print Name Byron K (Signature)	setoni.		

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

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

(505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

\_\_\_c, NM 87410 <u>District IV</u> - (505) 827-7131

Env. JN: 96052-00

	REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE		
1.	RCRA Exempt: Non-Exempt: G.13.0(	4. Generator Phillips Pet	10 (ann	
	Verbal Approval Received: Yes ☑ No ☐	5. Originating Site S 329-		
2.		6. Transporter Charlie 8		
3.	Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Manois		
7.	Location of Material (Street Address or ULSTR)	"0" See 25, TZ9N R 6 W		
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from to Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.</li> </ul>				
	mated Volume ZO cy Known Volume (to be entered by the open	JUN RECE OIL COLD DIS	777	
	SIGNATURE: Harlan M. Brown  TITLE: Landfarm Manager  DATE: 6.26.01  TYPE OR PRINT NAME: 505-632-0615			
AF	PPROVED BY: Deny TITLE: Geold PPROVED BY: TITLE:	DATE: 6-2	20/01	

96321865 P.0

HARLAN BROWN 6321865

# **CERTIFICATE OF WASTE STATUS**

TO

1. Generator Name and Address:	2. Destination Name:	
Phillips PETRoleum Co		
1-11/1/12 12 5/4 0/00 MM		emediation Facility
	Landfarm #2	
3. Originating Site (name):	Hilltop, New Mexic	
o. Organizaty orto transp;	Location of the Waste (Str	est address evor ULS (R);
29-6 # 82 m condens	TE TANK leaking	g @ manuay GASKET
Attach list of originating sites as appropriate	, ; <u>, , , , , , , , , , , , , , , , , ,</u>	
4. Source and Description of Waste	ON BASE OF NEW	Trank installed
on 5/22/01 spill/lenk Disc	". VERECL 6-7-01	By O. Bowman
Estingsto Volume = 45 cms		
Robert B. W.L		representative for:
Phillips PETAsleum Co.		do hereby certify that,
according to the Resource Conservation and Recove	ry Act (RCRA) and Environm	ental Protection Agency's July,
1988, regulatory determination, the above described		
<del></del>	1 7	on-hazardous by characteristic
analysis or	by product identification	
and that nothing has been added to the exempt or no	n-exempt non-hazardous was	ste defined above.
or NON-EXEMPT waste only the following document	antation is attached laborate	anacantinta itamal:
MSDS Information	Other (descri	
RCRA Hazardous Waste Analysis	Other (descri	paony.
Chain of Custody	1	
RAWA		
lame (Original Signature): //(// // // //		
itle: SA SAE Spols 1		
Date: 6-13-01		
		• • • • • • • • • • • • • • • • • • • •

District 1 - (505) 393-6161 Form C - 141 P.O. Box 1980 Originated 2/13/97 State of New Mexico Hobbe NM 88241-1980 Energy Minerals and Natural Resources Department District II'- (505) 748-1283 811 South First Oil Conservation Division 2040 South Pacheco Street Artesia, NM 88210 Submit 2 copies to Santa Fe, New Mexico 87505 District III - (505) 334-6178 Appropriate District (505) 827-7131 1000 Rio Brazos Road Office in accordance Aztec. NM 87410 with Rule 116 on District IV • (505) 827-7131 back side of form Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Contact Name Robert A. Wirtanen Phillips Petroleum Company Telephone Number Address (505) 599-3462 5525 Hwy. 64, Farmington, New Mexico 87401 Facility Type Facility Name San Juan 29-6 Wellsite 82M Condensate tank on mesa verde / dakota well Mineral Owner Lease No. Surface Owner RIM Federal NM-012671 BLM LOCATION OF RELEASE North/South Line Feet from the Earl/West Line Feet from the Unit Letter Section Township Rance o 25 29N 6W 10 South 1440 Rast Line Rio Arriba NATURE OF RELEASE Volume of Release Volume Recovered Type of Release we estimate 24 bbls all condensate leaked thru a manway gasket which was earthen bermed and where the outer tank base was lined with 60 mil plastic Date & Hour of Discovery Date & Hour of Occurrence Source of Release time began is unknown 06/07/2001 9:00 am gasket on manway opening of tank well was first delivered 5/22/01 If YES, To Whom? Was Immediate Notice Given? Not required NMOCD-Denny Faust by e-mail & fax; Mark Kelly by fax & tele X Yes Date and Hour By Whom? 06/13/2001 1515 hr Robert Wirtanen - Sr. EHS Spelst. If YES, Volume Impacting the Watercourse Was a Watercourse Reached? X If a Watercourse was impacted, describe fully. (Attach additional sheets if necessary) Spilled water did not reach a watercourse. Describe cause of problem and remedial action taken. (Attach additional sheets if necessary) The well which feeds this tanks was first delivered on 5/22/01. The well appears to be producing appprox 1.5 bbt. / day of condensate. The leak was at the clevation on the tank of 3 ft 4 inches. The source of the spill was corrected immediately upon discovery by tightening the manway botts. Describe area affected and cleanup action taken. Attach additional sheets if necessary) We are using an OVM meter to determine where we find ppm levels below 100. Fourty - five (45) cubic yards of soil were excavated (all within the radius of This spill was not reported sooner because we did not expect this spill volume to exceed 5 bbls. Upon excavating the soil, and backthe tank berm) calculating the condensate production on this new well, combined with the volume of "contaminated soil seen during cleanup, this report was produced. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate. contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the Operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION

> Approved by District Supervisor:

Approval Date:

Conditions of Approval:

Expiration Date:

Attached

c141-spillreport

06/13/2001

Signature:

Tide:

Date:

Printed Name:

Robert A. Wirtanen

Sr. Safety & Environmental Specialist

Phone:

505-599-3462

- (505) 393-6161 O. Box 1980 Jobbs, NN: 88241-1980 <u>Phatrict II</u> - (505) 748-1283 811 S. First Artesia, NM 88210

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus I Copy to appropriate District Office

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

Pi-trict III - (505) 334-6178

Env. JN:

97018

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE			
1. RCRA Exempt: Non-Exempt: G.B.ol	4. Generator MATCO		
Verbal Approval Received: Yes ∑ No ☐	5. Originating Site Various Cocations		
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Edvirotech		
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State ルム.		
7. Location of Material (Street Address or ULSTR)	2855 Southside River Rd		
9. Circle One:	Farmington, DM 87401		
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompressed by the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by		
BRIEF DESCRIPTION OF MATERIAL:			
Contaminated Soil / Sludge generated during cleaning & returb of oil & gas production equipment including; separators, delay banks & other production equipment  Norms Surveys Attacked  SUN 2001  TOCEIVED  DIST 301V  Estimated Volume — 16 drums cy Known Volume (to be entered by the operator at the enterthe haul) — cy			
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELI	DATE: 6.13.0 (  EPHONE NO. 505-632-0615		
(This space for State Use)  APPROVED BY: Serry Leuf TITLE: 6000	9/ST DATE: 6/14/01		

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Natco,2855 Southside River RD	ENvivotech Iwa. LHOUFAMMETZ
	5796. US HWY 60
	Farmington, Not 87401
	والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Solid generated during the cleanin	g of off and gas production
eqipment, at Natco,s yard.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Contaminated dirt and sluge, from var	ious locations see attatched list.
, <u> </u>	·.
·	
	·
	•
·	
1 Toffwar T Martinen	representative for:
1. <u>Jeffrey J Martinen</u> (Print Name,	1 opiosolitativo ioi.
National Tank Co. Farmington	do hereby certify that
according to the Resource Conservation and Recov	very Act (RCRA) and Environmental Protection Agency's July
1988, regulatory determination, the above describe	d waste is: (Check appropriate classification)
	EMPT oilfield waste which is non-hazardous by characteristic
analysis	or by product identification
and that nothing has been added to the exempt or r	non everyt nen heverdeus weste defined above
and that nothing has been added to the exempt of i	torresempt for riazardous waste defined above:
For NON-EXEMPT waste only the following doc	umentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	Other labority
Chain of Custody	
Chain of Custody	
Chain of Custody	
	ate
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	Person
Chain of Custody  Name (Original Signature):   Selfy g Mu  Title:   Let 1 1 2 4 55 f. 5 a f 6 7 5 1 5 2 6 7 5 1 5 2 6 7 5 1 5 2 6 7 5 1 5 2 6 7 5 1 5 2 6 7 5 1 5 2 6 7 5 1 5 2 6 7 5 1 5 2 6 6 7 5 2 6 6 7 5 1 5 2 6 7 5 1 5 2 6 7 5 7 5 1 5 2 6 7 5 7	Rerson



#### INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Matio's Yand (March Rock) Date: 3-9-01
Survey instrument model: Mode   3-18 Last calibrated: 10-10-00
Item description: Sive Danaels used for waste disposal
Number of pieces: 5- Blue Bassels
Location where items originated: from Equipment on the west lack
Background reading: uR/hr
Highest NORM reading: 17.0 uR/hr (corrected for background)
Lowest NORM reading:uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Testel all the barrels & they use
ak to be somewed from Action Yard
to be dispossed a fair
Inspector Jesse Manzanares.
What is final disposition? Blue bassels are of to be disposed of
Released to: favirotech Date: 3-9-01

#### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
CONOCO (-195	Hamner # 2E	73023992
Conoco C-193	Handre 2E	7302 3994
Conoco C-228	510 R +4 CL5 #4	7302 4924
Conoco C-242	5528-7 420A	7302 5657
Conoco (-252	Fed 11 E	73025803
Conoco (-251	Fed 11 F	73025804
Conoco	Ludwick	7302 5944
CONOCO 6-257	Colket #1E	73026058
Conoco C-259	Moore GC D-1	73626059
Panaco 6-258	State Com AK 35E	73026060
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# **CERTIFICATE OF WASTE STATUS**

1.	Generator Name and Address: Natco, 2855 Southside River RD	2. Destination Name: ENUITOTECH TINC, LANDFORM #2 5796 US How GO Hill top, New
{ }	11acco, 2000 Bodello 10c 10c 10c	5796 US. Hur 64 Hill top, wu
		Formington, Nex 87401
Ш		
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR): of oil and gas production
	Solid generated during the cleaning	of oil and gas production
	eqipment, at Natco,s yard.	
	•	
	Attach list of originating sites as appropriate	
A	Source and Description of Waste	
7.	Contaminated dirt and sluge, from varie	ous locations see attatched list.
	Containinated dire and bluge, 220m volume	
Τ		
-	Tell T Ma / 1100	
.		an annual and a fact
1, _	Jenet bland	representative for:
1, _	Jeffrey J Martiner (Pant Name, National Tank Co. Farmington	
_	National Tank Co. Farmington	do hereby certify that,
acc	National Tank Co. Farmington cording to the Resource Conservation and Recove	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
acc	National Tank Co. Farmington	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
acc 198	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
acc 198	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described NON-EXEMPT	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
198 ×××	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste NON-EXEM analysis or	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification
198 ×××	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described NON-EXEMPT	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification
acc 198	National Tank Co. Farmington  Fording to the Resource Conservation and Recove  88, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or  I that nothing has been added to the exempt or no	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  an-exempt non-hazardous waste defined above.
acc 198	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste NON-EXEM analysis or  I that nothing has been added to the exempt or no  NON-EXEMPT waste only the following docum	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification  on-exempt non-hazardous waste defined above.
acc 198	National Tank Co. Farmington  Fording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  an-exempt non-hazardous waste defined above.
acc 198	National Tank Co. Farmington  Fording to the Resource Conservation and Recove  State and State analysis or some state analysis or	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification  on-exempt non-hazardous waste defined above.
acc 198	National Tank Co. Farmington  Fording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification  on-exempt non-hazardous waste defined above.
acc 198	National Tank Co. Farmington  Fording to the Resource Conservation and Recove  State and State analysis or some state analysis or	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification  on-exempt non-hazardous waste defined above.
acc 198 and	National Tank Co. Farmington  Fording to the Resource Conservation and Recove 38, regulatory determination, the above described analysis or second that nothing has been added to the exempt or no second MSDS Information  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):
acc 198 and	National Tank Co. Farmington  Fording to the Resource Conservation and Recove 38, regulatory determination, the above described analysis or second that nothing has been added to the exempt or no second MSDS Information  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):
acc 198 and	National Tank Co. Farmington  Fording to the Resource Conservation and Recove 38, regulatory determination, the above described analysis or second that nothing has been added to the exempt or no second MSDS Information  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):
acc 198 and	National Tank Co. Farmington  Fording to the Resource Conservation and Recove 38, regulatory determination, the above described analysis or second that nothing has been added to the exempt or no second MSDS Information  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):
 and For National Title	National Tank Co. Farmington  Fording to the Resource Conservation and Recove  88, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT  analysis or  I that nothing has been added to the exempt or no  NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  The (Original Signature):  Asst. Safty Page  10.	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification  on-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):
 and For National Title	National Tank Co. Farmington  Fording to the Resource Conservation and Recove 38, regulatory determination, the above described analysis or second that nothing has been added to the exempt or no second MSDS Information  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic by product identification  on-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):



### INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Make's Yand (Farmington Date: 6-5-01
Survey instrument model: Model 3-98 Last calibrated: 10-10-00
Item description: 6- Metal Rental Sances.
Number of pieces: 6 bannels
Location where items originated: Unknown
Background reading: uR/hr
Highest NORM reading:
Lowest NORM reading:UR/hr (corrected for background)
Any samples taken? If so, how many?
Piece's inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Product was Just Diet & Council that
was swept up from Metio's Yaed (Clean up)
Inspector: Desce Manzanapes.
What is final disposition? <u>Saguels</u> are face of NORM
Released to: Whom it may Concern. Date: 6-5-01

#### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
Burlinston	Newberry #13A	73023372
Burlington I-43	9 SunRag 62A	73024284
Burlington	9 Sunkay 63A Filan #6	73024281
Burlington I-83		7302 4665
Burlington I-74	0 11 0 -	7302 4666
Burlington I-92:		73024667
Burlington I 877	Tarner Hughs 21A	73024668
Burlinston	Huerfano 4 108E	73025945
Burlington I-929	54nRay DDR	73025187
Burlinston	ObLiver #1	73025800
Burlington 2-831	Huerfano #104	73025184
Burlington I 474	29-7 # 61 A	73025188
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# **CERTIFICATE OF WASTE STATUS**

17.	Generator Name and Address:	2. Destination Name:	
	Natco,2855 Southside River RD	Envirotech Inc	CANDFARM #2
1		579645 Hwr69	Hill top, were
		Envirotech Inc. 579645Hur 64 Farmington DM 8740	
1	Originating Site (name):	1 000 00 00 00 00 00 00 00 00 00 00 00 0	l and address & (and 1) OTD)
].	Solid generated during the cleaning	Location of the Waste (Str	tion
	egipment, at Natco,s yard.	or our are gen brosen	
	eqiphetic, at nacco, b yara.	•	
L	Attach list of originating sites as appropriate	<u> </u>	
4.	Source and Description of Waste		
	Contaminated dirt and sluge, from vari-	ous locations see atta	tched list.
1	•		
	<u> </u>		i
,	Teffres + Martinez	•	representative for:
.,			
	(Pfint Name)		
	Teffry 5 Marting 2 Print Name, National Tank Co. Farmington		do hereby certify that,
	National Tank Co. Farmington cording to the Resource Conservation and Recove	ry Act (RCRA) and Environm	do hereby certify that,
acc	National Tank Co. Farmington		do hereby certify that, nental Protection Agency's July,
acc 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described	Waste is: (Check appropriate cl	do hereby certify that, nental Protection Agency's July,
acc 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield wasteNON-EXEMPT	waste is: (Check appropriate cl	do hereby certify that, nental Protection Agency's July,
acc 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield wasteNON-EXEMPT	Waste is: (Check appropriate cl	do hereby certify that, nental Protection Agency's July,
198 200	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste NON-EXEM analysis or	waste is: (Check appropriate cl.  APT oilfield waste which is not be product identification	do hereby certify that, nental Protection Agency's July, assification) non-hazardous by characteristic
193 ×××	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield wasteNON-EXEMPT	waste is: (Check appropriate cl.  APT oilfield waste which is not be product identification	do hereby certify that, nental Protection Agency's July, assification) non-hazardous by characteristic
acc 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield wasteNON-EXEM analysis or I that nothing has been added to the exempt or no	Waste is: (Check appropriate class)  MPT oilfield waste which is not by product identification in-exempt non-hazardous waste waste waste waste in-exempt non-hazardous waste waste waste waste in-exempt non-hazardous waste w	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above.
acc 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
acci 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	Waste is: (Check appropriate class)  MPT oilfield waste which is not by product identification in-exempt non-hazardous waste waste waste waste in-exempt non-hazardous waste waste waste waste in-exempt non-hazardous waste w	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
acci 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
199 xxx	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
acci 19	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
acc 199	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
acc 199	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
anx	National Tank Co. Farmington  cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT analysis or  I that nothing has been added to the exempt or no  NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  me (Original Signature):  Application	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
anx For Na	National Tank Co. Farmington  cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT analysis or  I that nothing has been added to the exempt or no  NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  me (Original Signature):  Application	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
anx For Na	National Tank Co. Farmington  cording to the Resource Conservation and Recove  88, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT analysis of  It that nothing has been added to the exempt or no  NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  The Coriginal Signature:  Result & Asst. Seffy Peres	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):
anx For Na	National Tank Co. Farmington  cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT analysis or  I that nothing has been added to the exempt or no  NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  me (Original Signature):  Application	MPT oilfield waste which is not by product identification on-exempt non-hazardous wastentation is attached (check	do hereby certify that, nental Protection Agency's July, assification) con-hazardous by characteristic ste defined above. appropriate items):





#### INSPECTION FOR NORM CONTAMINATION

Location: Actor's Yand (Farmington) Date: 6-5-01
Survey instrument model: Model 3-98 Last calibrated: 10-10-00
Item description: 4- of Plateo's Matal Ballos.
Number of pieces: 4-billeds.
Location where items originated: Unknown (Production Equipment wasked on wask
Background reading:uR/hr
Highest NORM reading:uR/hr (corrected for background)
Lowest NORM reading:uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Paogret was tested + was
Tound thee of any Contamination
Inspector: Tesse Manzanapes
What is final disposition? Bappels are face of Norm.
Released to: Whom it may Concern. Date: 6-5-01

#### Sheet1

	WASTE SOLIDS	
0010111	LOCATION	100 11111050
COMPANY	LOCATION	JOB NUMBER
Crosstimbers	Fed-1	73022917
Crosstimber5	4+e Dome DK	73022924
Crosst, mbers	Haney BIE	73023991
Crosstimpers	Martine - Gas Combi	73074909
Crosstim Divs	JC Gordon D3E	73025523
(rosstimbers	Gallego's #8	73026064
(rosstimbers	Gordon B#1E	73026703
Crosstimbers	Gordon DZE	73026689
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District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 96052-

Pi-trict III - (505) 334-6178
Rio Brazos Road
مــــــc, NM 87410
District IV - (505) 827-7131
200 (C)

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: ☐ Denny Fount	4. Generator Phillips Ratus (see	
Verbal Approval Received: Yes 💹 No 🔲 っいん	5. Originating Site Sゴ・Z9-6 #93	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Cimmeron	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Den Marsico	
7. Location of Material (Street Address or ULSTR)	SWISE SEC16, TZ9N, R6W	
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted of the control of the contr</li></ul>		
PROVE the material is not-hazardous and the Generator's certificatio listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned.	n of origin. No waste classified hazardous by	
Estimated Volume cy Known Volume (to be entered by the open SIGNATURE:	PIN 2001  CEIVED  DIST. 8  erator at the end of the haul) ————————————————————————————————————	
(This space for State Use)  APPROVED BY: Demy Temy TITLE: (90/60)	DATE: 6/14/10/	

TO

Jo: ENJIAN BAGOWN HAN-632-1865

Denny Forest 6-11-01 9:45

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:	
Phillips PETA Jeum (-		
/ ""/"	Envirotech Soil Remedia Landfarm #2	tion Facility
	Hilltop, New Mexico	
3. Originating Site (name):	Location of the Waste (Street add	fress &/or ULSTR):
29-6#93m	pontainers of soil	
Attach list of originating sites as appropriate		
A Causas and Constitution of Mines		/ /
Soil From Small (	Pendensite spill < 5	33/5
Soil From Small C DUE TO leaking TANK	GASKST = 80,6-8	ach
	Contrivers of	
1. M. Widigusal		oresentative for:
(Print Name) //	s Pemoleum Co.	
according to the Resource Conservation and Red 1988, regulatory determination, the above descri	covery Act (RCRA) and Environmental P	
	EXEMPT oilfield waste which is non-haza	erdous by characteristic
and that nothing has been added to the exempt of	or non-exempt non-hazardous waste defi	ned above.
For NON-EXEMPT waste only the following do  MSDS Information  RCRA Hazardous Waste Analysi	Other (description):	riate items):
Chain of Custody		
01.11		
Name (Original Signature):		

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

APPROVED BY:

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

JUN 29 2001

Submit Original Plus I Čopy to appropriate District Office

Form C-138

Originated 8/8/95

Environmental Bureau Oil Conservation Division

Env. JN: 96043

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Cooper Every - Sore	
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Phillips Pat	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Charles Barella	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Down Mangico	
7. Location of Material (Street Address or ULSTR)		
9. Circle One:	Rio Arriba Comby.	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	empanied by necessary chemical analysis to n of origin. No waste classified hazardous by	
ODIES DECODISTION OF MATERIAL	<u> </u>	
SIGNATURE: Harlan M. Brown Waste Management FacilityAuthorized Agent Harlan M. Brown	rator at the end of the haul) — cy	
(This space for State Use)  APPROVED BY: Levy Keny TITLE: Ceole	DATE: 6/14/01	

TITLE: Environmental Cocolors +

DATE: 7-2-01

District I - (505) 393-6161
P.O. Box 1980
Höbbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Pi-trict III - (505) 334-6178
Pio Brazos Road
Acc., NM 87410

APPROVED BY:

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

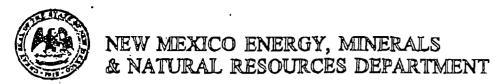
> Submit Original Plus I Copy to appropriate District Office

Env. JN: 96043

DATE:

MICTY - (303) 627-7131	111. OH. 76013	
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Cooper Every - Sor	
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Phillips Pat	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Charles Boules	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Den Margico	
7. Location of Material (Street Address or ULSTR)	l	
9. <u>Circle One</u> :	Sec 17 T30N R5W Rio Arriba County.	
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>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.</li> </ul>		
All transporters must certify the wastes delivered are only those consigned	for transport.	
BRIEF DESCRIPTION OF MATERIAL:  Class up of Soil contaminated w/ A  MS DS Attached.	sens Pagasus 490 Labeoi	
	JUN 2007 ON ON ON ON	
Estimated Volume — 12 cy Known Volume (to be entered by the oper	rator at the end of the haul) ————————————————————————————————————	
SIGNATURE: Harlan M. Brown  TITLE: Landfarm Ma Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: 6.13.01  EPHONE NO. 505-632-0615	
(This space for State Use)		

TITLE:



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE TOOO RIO BRAZOS ROAD AZTEC, NEW HEXICO 87410 (505) 334-8170 Fax (505) 234-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
	Envirotech Soil Remediation Facility
COOPER ENERGY SERVICES 3900 E BLOOM FIELD HWY.	Landarm #2
3900 E. Beller / F. ECO 1104	Hilltop, New Mexico
FARMINGTON, NM, 87401	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
PHILLIPS SITE 30-5-234	
PAICEITS SITE DE DE SOS	
And the standard of the standa	
Attach list of originating sites as appropriate  4. Source and Description of Waste	
4. Source and Description of Wash	·
NEW DIE PEGASUS 490	
·	
·	
	,
I love Alexanous	rapresentative for:
(Print Name)	rspressitiative for
1, JEFF NEWMANN (Print Name)  COOPER ENERGY SERVICE	do hereby certify that,
according to the Besource Conservation and Recover	Y.Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Waste is: (Check appropriate classification)
·	
EXEMPT oilfield waste X NON-EXEN	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no.	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items);
X MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	• • •
This waste is in compliance with Regulated Levels of I	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	1
to 20 NMAC 3.1 subpart 1403.C and D.	1
Name (Original Signature):	iman
Name (Original Signature):	iman
Name (Original Signature):  Name (MANAGER  Title: SERVICE MANAGER	iman
Name (Original Signature):  Name (MANAGER  Title: SERVICE MANAGER	man
Name (Original Signature):	man

609-224-4644

## MATERIAL SAFETY DATA BULLETIN

## **MOBIL PEGASUS 490**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 490

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD. FAIRFAX, VA 22037

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

800-662-4525 Product and MSDS Information:

800-424-9300 202-493-7616 CHEMTREC:

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to centain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

#### 3. HAZARDS IDENTIFICATION

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

#### 4. FIRST AID MEASURES

EYE CONTAC'T: Flush thoroughly with water. If irritation occurs, call

a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, seek madical 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 fixes in enclosed areas, fire fighters must use self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 218(425) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.

NPPA 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 scorm 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 FROTECTION: 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 CDOR: Mild

ODOR THRESHOLD-PDM: NE

pH: NA

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

MELTING POINT C(F): NA

FLASH POINT C(F): > 218(425) (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: 132.0

VISCOSITY AT 100 C, est: 13.

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 oxidizors.

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): Fractically non-toxic (LD50: greater than 2000 mg/kg). --- Pased on testing of similar products and/or the
- INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). --- Based on testing of similar products and/or the components.
- FYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). --- Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). --- Based on testing of similar products and/or the components.
- OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects. administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

#### ---SUBCHRONIC TOXICOLOGY (SUMMARY)---

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

#### ---REPRODUCTIVE TOXICOLOGY (SUMMARY) ---

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

#### --- CHRONIC TOXICOLOGY (SUMMARY) ---

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

#### --- SENSITIZATION (SUMMARY) ---

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

#### --- OTHER TOXICOLOGY DATA---

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

5053270820

#### 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.

IATA: NOT REGULATED BY IATA.

25=PA RTK

26=RI RTK

#### 15. REGULATORY INFORMATION

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

EU Labeling: EU labeling not required.

10=0SHA Z

5=NTP SUS

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: CAS NUMBER LIST CITATIONS CHEMICAL NAME \_\_\_\_\_\_ 7440-56-6 22 ZINC (ELEMENTAL ANALYSIS) (0.03%) 68649-42-3 22 PHOSPHORODITHOIC ACID. 0.0-DI C1-14-ALKYL ESTERS, ZINC SALTS (2: 1) (ZDDP) (O . 24 %) --- REGULATORY LISTS SEARCHED ---11=TSCA 4 21=LA RTK 1=ACGIH ALL 6=IARC 1 16=CA P65 CARC 17=CA P65 REPRO 22=MI 293 12=TSCA 5a2 2=ACGIH A1 7≈IARC 2A 23=MN RTK 18=CA RTK 8=IARC 2B 13=TSCA 5@ 3=ACGIH A2 9≃05HA CARC 14=TSCA 6 19≎FL RTK 24≃NJ RTK 4=NTP CARC

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

15=TSCA 12b 20=IL RTK

#### 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: 605881-00, CMC\$97: 970910, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 07MAY1999

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\*END OF DOCUMENT\*

Revision Date: 05/10/99, MOBIL PEGASUS 490 - Page: 7 10/04/99

District I - (505) 393-6161 P.O. Box 1980 Hobbs. NN 38241-1980 **Pistrict II** - (505) 748-1283 811 S. First Artesia, NM:88210 ''-trict III - (505) 334-6178

Rio Brazos Road

\_...c. NM 87410

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

RECEIVED

Form C-138 Originated 8/8/95

JUN 29 2001 Environmental Bureau

Oil Conservation Division

Submit Original Plus I Copy to appropriate District Office

TITLE: Environm Geo 1 DATE: 7-2-01

REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
1. RCRA Exempt: Non-Exempt: Dount fount.	4. Generator Baker Hughes Oil
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Inland Your
2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2	6. Transporter ENDINOTES
5796 US Highway 64 Farmington, NM 87401	8. State Num Margico
. Location of Material (Street Address or ULSTR)	Farming fon, NM 87401
. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certificate listing or testing will be approved.</li> </ul>	companied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consign	ned for transport.
RIEF DESCRIPTION OF MATERIAL:  Soil Condominated w/ hydraul  broke.  JUL 2001  PECENTED  OIL OON. DIV  DIST. 3	

terry

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

APPROVED BY:\_

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>6(039-0</u>0)

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: Non-Exempt:	4. Generator Baker Hughes Oil-	
Verbal Approval Received: Yes 🖂 No 🔲 ゅんらひら	5. Originating Site Tuland Yang	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENVIVOTER	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Num Marcico	
7. Location of Material (Street Address or ULSTR)	2795 Inland St. Farming fon, NM 87401	
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be acceded Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by a certification of waste from the	
All transporters must certify the wastes delivered are only those consigned	for transport.	
BRIEF DESCRIPTION OF MATERIAL:  Soil Condominated w/ hydrauli broke.	JUN 2001  DIST. 3  DIST. 3	
SIGNATURE: How Brown TITLE: Landfarm Ma	DATE: 6:(3:0/	
(This space for State Use)  APPROVED BY: Demy Kent TITLE: Geolo	513 DATE: 6/14/01	

TITLE:

DATE:



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

## CERTIFICATE OF WA

US

HARlan

1. Generator Name and Address: Baker Oil Tools 785 Sandstone Farmington, New Mexico 87401	2. Desti Enviro Landar Hillto,	ion Facility:
3. Originating Site (name):  Baker Oil Tools  2795 Inland 5t. Farmington, New Mexico 87401  Attach list of originating sites as appropriate	Baker Oil Tools 2795 Inland S	reet address &/or ULSTR):  5+.  Mexico 87401
4. Source and Description of Waste  Soil Contaminated with hydraul	ic fluid/oil	
Richard P Schauffler R  (Print Name)  Baker Hughes Inc. / Baker  according to the Resource Conservation and Recover  1988, regulatory determination, the above described  EXEMPT oilfield waste  X NON-EXEM analysis or	ry Act (RCRA) and Environn waste is: (Check appropriate of	
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	tion is attached (check approach	ropriate items):
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioact	tive Material (NORM) pursuant
Name (Original Signature): Ridle Sch Title: HS4E Specialist II, US E	fly Nuiroismental Af	fairs

The soil contaminated with hydraulic fluid resulted from a hose failure/separation from a power swivel. The soil contaminate is a hydraulic fluid known as Torque Fluid 58, which is manufactured by ExxonMobil Corporation (MSDS attached). The hydraulic fluid does not contain any listed RCRA constituents (organics, inorganics, or metals) or exhibit any RCRA characteristics (ignitable, reactive, corrosive).

Richard Schauffler, REM, CEA

HS&E Specialist IV

**US Environmental Affairs** 

Baker Hughes Inc. Baker Oil Tools HYDRAUL 56

ExxonMobil

Lubricants &

Petroleum Specialites

DATE ISSUED: 03/22/99

SUPERSEDES DATE: 10/27/97

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

COMPANY: Exxon Mobil Corporation

ExxonMobil Lubricants & Petroleum

Specialties Company

3225 Gallows Road

Fairfax, VA 22037-0001

PRODUCT NAME

PRODUCT CODE

HYDRAUL 56

213997

PRODUCT CATEGORY

Petroleum Lubricating Oil

MEDICAL EMERGENCY TELEPHONE NUMBER: (713) 656-3424

TRANSPORTATION EMERGENCY TELEPHONE NUMBERS

(BAYTOWN) (281) 834-3296

(CHEMTREC) 1-800-424-9300

Product Information and Technical Assistance: 1-800-443-9966

FAXED MSDSs: 1-800-298-4007 MAILED MSDSs OR OTHER ASSISTANCE: (713) 656-5949

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

		·
	CAS NO. OF	APPROXIMATE
COMPONENTS	COMPONENTS	CONCENTRATION
Distillates (petroleum), hydrotreated	64742-54-7	Greater than 89%
heavy paraffinic		
or	or	
Distillates (petroleum), solvent-	64742-65-0	
dewaxed heavy paraffinic		
and	and	
Distillates (petroleum), solvent-	64741-97-5	
refined light naphthenic		
or	or	
Distillates (petroleum), solvent-	64741-88-4	
refined heavy paraffinic		
Proprietary additives	Mixture	Less than 11%
SEE SECTION 8 FOR EXPOSURE LIMITS		

HYDRAUL 56 Page 3 of 14

#### EMERGENCY OVERVIEW

OSHA REQUIRED LABEL INFORMATION

In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

Note: Product label may contain non-OSHA related information also.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health Flammability Reactivity BASIS

1 0 Recommended by ExxonMobil

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION

Health Flammability Reactivity BASIS

1 1 Recommended by ExxonMobil

#### VARIABILITY AMONG INDIVIDUALS

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)

Prolonged or repeated skin contact may cause skin irritation.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE

None recognized

SECTION 4: FIRST AID MEASURES

#### . EYE CONTACT

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

#### SKIN

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### INHALATION

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to oil mist, remove from further exposure until excessive oil mist condition subsides.

#### INGESTION

If ingested, DO NOT induce vomiting; call a physician immediately.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT (MINIMUM)

AUTOIGNITION TEMPERATURE

**HYDRAUL 56** Page 5 of 14

193~C (380~F)

Greater than 232~C (450~F)

ASTM D 92, Cleveland Open Cup

FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)

Estimated values: Lower Flammable Limit 0.9% Upper Flammable Limit 7%

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialtists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):

Use water spray, dry chemical, foam, or carbon dioxide to extinguish the fire. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Fumes, smoke, carbon monoxide, sulfur oxides, phosphorus oxides, metal oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

HYDRAUL 56 Page 6 of 14

#### .CLEAN WATER ACT / OIL POLLUTION ACT

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations.

#### SECTION 7: STORAGE AND HANDLING

#### 'HANDLING PRECAUTIONS

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

#### "EMPTY" CONTAINER WARNING

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH

CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF

IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be

disposed of in an environmentally safe manner and in accordance with governmental regulations.

For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE LIMIT FOR TOTAL PRODUCT

5 mg/m3 for oil mist (aerosol) for an 8-hour workday

#### BASIS

OSHA Regulation 29 CFR 1910.1000 and recommended by the American Conference of Governmental Industrial Hygienists (ACGIH). ACGIH states that the air is to be sampled by a method that does not collect vapor; in addition, it lists a 10 mg/m3 STEL.

#### VENTILATION

Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

#### RESPIRATORY PROTECTION

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

#### PROTECTIVE GLOVES

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin

HYDRAUL 56 Page 8 of 14

contact.

#### 1 EYE PROTECTION

Use splash goggles or face shield when eye contact may occur.

#### · OTHER PROTECTIVE EQUIPMENT

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

#### WORK PRACTICES / ENGINEERING CONTROLS

To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with (THE) National Fire Protection Association PUBLICATIONS.

Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70).

This document is available from the National Fire Protection Association,

Batterymarch Park, Quincy, Massachusetts 02269.

#### PERSONAL HYGIENE

Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean before re-use; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE

IBP Approximately 260~C (500~F)

VAPOR PRESSURE

Less than 0.01 mm Hg @ 20~C

SPECIFIC GRAVITY (15.6 Deg C/15.6 Deg C) VAPOR DENSITY (AIR = 1)

0.87

Greater than 5

MOLECULAR WEIGHT

Not determined

PERCENT VOLATILE BY VOLUME

Negligible from open container in

4 hours @ 38 Deg C (100 Deg F)

рН

Essentially neutral

EVAPORATION RATE @ 1 ATM. AND 25~C

 $(77 \sim F)$  (n-BUTYL ACETATE = 1)

Less than 0.01

POUR, CONGEALING OR MELTING POINT

-33~C (-28~F)

Pour Point by ASTM D 97

SOLUBILITY IN WATER @ 1 ATM.

AND 25 Deg C (77 Deg F)

Negligible; less than 0.1%

VISCOSITY

9.0 cSt @ 100 Deg C

PRODUCT APPEARANCE AND ODOR

**HYDRAUL 56** Page 10 of 14

Clear liquid, amber color Mild, bland petroleum odor

#### SECTION 10: STABILITY AND REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### NATURE OF HAZARD AND TOXICITY INFORMATION

Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection.

In accordance with the current OSHA Hazard Communication Standard criteria, this product does not require a cancer hazard warning. This is because the product is formulated from base stocks which are severely hydrotreated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction. Alternatively, it may consist of components not otherwise affected by IARC criteria, such as atmospheric distillates or synthetically derived materials, and as such is not characterized by current IARC classification criteria.

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human HYDRAUL 56 Page 11 of 14

experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

#### SECTION 12: ECOLOGICAL INFORMATION

Do not discharge this product into public waters or waterways unless authorized by a National Pollution Discharge Elimination System (NPDES) permit issued by the Environmental Protection Agency (EPA).

Environmental and Ecological data may be available for this product. Write or call ExxonMobil to obtain further information. Refer to Section 6 and Section 15 for Accidental Release information and Regulatory Reporting information.

#### SECTION 13: DISPOSAL CONSIDERATION

Options for disposal of this product may depend on the conditions under which

HYDRAUL 56 Page 12 of 14

it was used. To determine the proper method of disposal, refer to RCRA (40 CFR 261), as well as federal EPA and state and local regulations.

Please refer to Sections 5, 6 and 15 for additional information.

#### SECTION 14: TRANSPORTATION INFORMATION

#### TRANSPORTATION INCIDENT INFORMATION

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION
Not regulated

#### SECTION 15: REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304)

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)

This product contains approximately 1.3% zinc compounds.

HYDRAUL 56 Page 13 of 14

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)

EPA Hazard Classification Code: Not Applicable

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product, as manufactured by ExxonMobil, does not contain polychlorinated biphenyls (PCB's).

All components of this product are listed on the U.S. TSCA inventory.

#### SECTION 16: OTHER INFORMATION

The health and safety information presented herein must be used in conjunction with the pertinent standards for training, work practices and facilities design established by OSHA, NIOSH, NFPA, API, NEC, NSC, UNDERWRITERS, BUREAU OF MINES, and similar organizations.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. ExxonMobil does not warrant or guarantee their accuracy or reliability, and ExxonMobil shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

HYDRAUL 56 Page 14 of 14

The Environmental Information included under Section 15 hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by ExxonMobil Lubricants & Petroleum Specialties Company, in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with ExxonMobil's interpretation of the available data.

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

District IV - (505) 827-7131

c, NM 87410 مدر

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 01039.001

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt: Denne Fount 5.?.01	4. Generator Baken Oil Tools
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site I wand Your
<ol> <li>Management Facility Destination Envirotech Soil Remedia.</li> <li>Facility Landfarm #2</li> </ol>	6. Transporter Serveno's
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico
7. Location of Material (Street Address or ULSTR)	7795 Iwand Formington, Nu.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Studge & water generaled during	washing down-hole "Tools
No solvents or soups in according to Richard School State of the State	JUN 2001  THE CENTRON  ON CONTROL  OST ON  OST
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TEL	DATE: 6.13.01  EPHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: Deny Kent TITLE: Geolo	DATE: 6/14/0/
APPROVED BY: TITLE:	DATE: 4-14-1

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:  Baker Oil Tools 785 Sand Stone Farmington, New Mexico 87401  3. Originating Site (name):  Baker Oil Tools 2795 Inland St. Farmington, New Mexico 87401	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico  Location of the Waste (Street address &/or ULSTR): Baker Oil Tools 2795 Inland St. Farmington, New Mexico 87401	
Attach list of originating sites as appropriate  4. Source and Description of Waste	ATTENDED CONTROL OF THE CONTROL OF T	
5/udge (water & solids) from	washing down-hole tools.	
The second secon		
Richard P. Schauffler REM CEA representative for:  Baker Hughes Inc. Parker Oil Tools 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)  X 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.		
	laturally Occurring Radioactive Material (NORM) pursuant	

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: Baker Oil Tools 785 Sandstone Farmington, New Mexico 87401	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico	
3. Originating Site (name): Baker Oil Tools 1732 East Main Farmington, New Mexico 87401 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): Baker Oil Tools 1732 East Main Farmington, New Mexico 87401	
4. Source and Description of Waste	washing packers (down-hole)	
Richard P. Schauffler, REM, CEA representative for:  Baker Hughes Mc. Baker Oil Tools 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)  X EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic		
and that nothing has been added to the exempt or nor  For NON-EXEMPT waste the following documenta  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody		
This waste is in compliance with Regulated Levels of Nto 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant	
Name (Original Signature): Ridle Sol Title: HS1E Specialist II, US END Date: 5/10/0/	lironmental Afferirs	

District I .- (505) 393-6161 F O. Box : 980 Hotes, NM 88241-1980 Instrict II - (505) 748-1283 811 S. First Artesia, NM 88210

P'-trict III - (505) 334-6178 Rio Brazos Road

\_\_c, NM 87410 District IV - (505) 827-7131

Energy Minerals and Natural Resources Department

(505) 827-7131

2040 South Pacheco Street JUN 29 2001 Santa Fe, New Mexico 87505

Environmental Bureau

Oil Conservation Division

OL GON ON DIST. 3 JN:

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: S-3(-0)	4. Generator Halliburtan ES
Verbal Approval Received: Yes No Reposition	5. Originating Site Junk water
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Ker Evergy
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Wew Maxico
7. Location of Material (Street Address or ULSTR)	4109 E. MainSt. Farmington, NM. 87401
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be acceded Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceded PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	empanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Estimated Volume SO 66 cy Known Volume (to be entered by the ope  SIGNATURE: Harlan M. Brown	JUL 2001  JUL 20
(This space for State Use)	

APPROVED BY:

TITLE: (See log is)

District I; (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>92132</u>-

III S. First
Irtesia, NM 88210
`' trict III - (505) 334-6178
Rio Brazos Road
c, NM 87410
Nevelet TV - (505) 827-7131

APPROVED BY:

· · · · · · · · · · · · · · · · · · ·	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: S-31-01	4. Generator Halliburtan E.S
Verbal Approval Received: Yes V No C Reposit	5. Originating Site Junk water
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Key Eastray
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico
7. Location of Material (Street Address or ULSTR)	4109 E. MainSt. Farmington, NM. 87401
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accommodately considered and accept oilfield exempt wastes will be accommodately considered and accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.  All requests for approval to accept oilfield exempt wastes will be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes will be accept non-exempt wastes must be accept non-exempt wastes accept non-exempt wastes accept non-exempt non-exemp	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	for transport.
Estimated Volume SO 661 cy Known Volume (to be entered by the open	ON 11773 on one chiou )
Waste Management FacilityAuthorized Agent Harlan M Brown	EPHONE NO
(This space for State Use)  APPROVED BY: Length TITLE: Geolog	DATE: 6/14/01

TITLE:

DATE:\_



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
1. Generator Name and Address: Halliburtow ENERGY Ser Vices 4109 E. Muin Street	Envirotech inc.
	5796 us high way 64
Farmington N.M. 87401	Farming ton N.M. 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Hall burton Energy Services	Halliburton energy Service
	4109 E Main Street
Attach list of originating sites as appropriate	Farmington NM 87401
4. Source and Description of Waste	
Sludgesplids From Waste	Tank
1, Allen Roderick (Print Name)	representative for:
(Print Name)	
according to the Resource Conservation and Recover	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
· V	
	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentar	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
!	
	laturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	,
A . O .	
Name (Original Signature):	
Title: Sharkd Services Si	LORKINSOK
Date: 01-01	
Date: 06-01-01	

Artesia, 7531 88240 District III - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410

District IV - (505) 827-7131 2040 S. Pacheco Santa Fe. NM 87505

### Energy '

### erals and Natural Resources De Oil Conservation Division

2040 South Pacheco Street Santa Fc. New Mexico 87505 (505) 827-7131

ment

-Submit to OCD Permitted Surface Waste Management Facility

3/15/00

### **GENERATOR CERTIFICATE OF WASTE STATUS**

1. Waste Generator Name and Address: HALLIBURTON ENERLY SORVICES A109 E. MAN. ST	Permit Number (if waste generated at an OCD permitted facility)
FREMINGTON, HM 87402	
3. Description of Waste and Generating Process:  FEAC RENDEN FWIDS	4. Location of Waste (Street address &/or ULSTR):
3 Lods	HALIBORION ENERGY SERVICES 4109 E. MAINST. TARMINGTON, NM 87402
5. Destination (Surface Waste Management Facility):	6. Transporter:  KLY ENERGY SERVICES  56.51 US FLY. 64
7. Estimated Volume 143 cy/bbls	5651 Ws Kny. 64 Farmington, NM 27402
For NON-EXEMPT waste only, the following documentation is a	attached (check appropriate items):
MSDS Information	RCRA Hazardous Waste Analysis (With Chain of Custody).
Other (Description)	
Generator certifies that, according to the Resource Conservation Agency's July 1988 regulatory determination, the above describe	on and Recovery Act (RCRA) and the Environmental Protection ped 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 waste does not contain Naturally Occurring Radioactive Materi Subpart 1403.	this exempt or non-exempt non-hazardous waste and that this al (NORM) regulated pursuant to 20 NMAC 3.1
Generator Signature:	Date: 5-18-01
Print Name: ALLEN J. Rodricus	
Title: Shared Services FACILITIE	es Superior



#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Halliburton Energy Services Junk Water Tank

Project #: Date Reported:

92132-001

Lab ID#:

19788

Date Sampled:

05-02-01 04-25-01

Sample Matrix: Preservative:

Water

Date Received:

04-25-01

Cool

Date Analyzed:

04-30-01

Condition:

Cool and Intact

Chain of Custody:

8625

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 2.26

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

CORROSIVITY:

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

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

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

4109 E. Main St., Farmington, New Mexico.

Analyst



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

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Junk Water Tank	Date Reported:	05-03-01
Laboratory Number:	19788	Date Sampled:	04-25-01
Chain of Custody:	8625	Date Received:	04-25-01
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-02-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.749	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0015	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND .	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
•	1,4-difluorobenzene 🛫	100%
	4-bromochlorobenzene	100%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

4109 E. Main St.

at. Cela Christini m Waeter



### EPA METHOD 8040 PHENOLS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Junk Water Tank	Date Reported:	05-03-01
Laboratory Number:	19788	Date Sampled:	04-25-01
Chain of Custody:	8625	Date Received:	04-25-01
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-02-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

<i>A</i>	Concentration	Detection Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	0.296	0.020	200
p,m-Cresol	0.720	0.040	200
2,4,6-Trichlorophenol	0.073	0.020	2.0
2,4,5-Trichlorophenol	0.098	0.020	400
Pentachlorophenol	0.278	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:

4109 E. Main St.

Analyst

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700 H.C. Highway 64 & Earmington NM 07401 - Tot 505 - 500 - 0645 - Ear 505 - 690 -



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

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Junk Water Tank	Date Reported:	05-03-01
Laboratory Number:	19788	Date Sampled:	04-25-01
Chain of Custody:	8625	Date Received:	04-25-01
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-02-01
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	0.077	0.020	2.0
Hexachlorobutadien	e ND	0.020	0.5
2,4-Dinitrotoluene	0.088	0.020	0.13
HexachioroBenzene	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:

4109 E. Main St.

Analyst C. Cylen

(huster m waller



## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Junk Water Tank	Date Reported:	05-02-01
Laboratory Number:	19788	Date Sampled:	04-25-01
Chain of Custody:	8625	Date Received:	04-25-01
Sample Matrix:	Water	Date Analyzed:	05-02-01
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.006	0.001	5.0
Barium	0.035	0.001	100
Cadmium	0.005	0.001	1.0
Chromium	0.331	0.001	5.0
Lead	0.339	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.001	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4109 E. Main St.

Analyst

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706 11 S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 18



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client: Sample ID:	QA/QC Laboratory Blank	Project #: Date Reported:	N/A 05-03-01
Laboratory Number:	05-02-TCV	Date Sampled.	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-02-01
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%
<u></u>	1,4-difluorobenzene	•	100%
•	4-bromochlorobenzene		100%
	•		

References: Method 1311, T

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 19788.

Analyst C. Column

Thusten m Lasten



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-03-01
Laboratory Number:	19788	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-02-01
Condition:	N/A	Date Extracted:	N/A

		Duplicate	THE THE TAX AND AND THE TENTH AND AND AND AND A	
•	Sample	Sample	Detection	•
•	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.749	0.750	0.0001	0.2%
Chloroform	ND	ND .	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0015	0.0015	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	~0.0%

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19788.

Analyst

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	05-03-01
Laboratory Number:	19788	Date Sampled:	·· N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-02-01
Condition:	N/A	Date Extracted:	N/A

			Spiked			SW-846
	Sample	Spike	Sample	Det.	•	% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.749	0.050	0.798	0.0001	100%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	0.0015	0.050	0.0510	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	<sup>2</sup> 0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19788.

Analyst Cylina

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# EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	05-03-01
Laboratory Number:	05-02-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-02-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter		Percent Reco	very
	2-fluorophenol			98 %
.*	2,4,6-tribromoph	enol		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 19788.

Analyst Coleman

Molai m Wastes



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	. N/A
Sample ID:	Matrix Duplicate	Date Reported:	<b>0</b> 5-03 <b>-</b> 01
Laboratory Number:	19788	Date Sampled:	· N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	05-02-01
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.296	0.293	0.020	1.0%
p,m-Cresol	0.720	0.705	0.040	2.0%
2,4,6-Trichlorophenol	0.073	0.072	0.020	1.0%
2,4,5-Trichlorophenol	0.098	0.097	0.020	1.1%
Pentachlorophenol	0.278	0.276	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:		Parameter	Maximum Difference
·		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	Characteristic Leaching Procedure Test A, July 1992.	Methods for Evaluating Solid
. <del>4</del> ++	Method 3510, Separato Waste, SW-846, USEPA	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Mathed 2040 Phonole	Toot Mathada for Evaluating Solid Wise	# CIN 846 LISEDA Sont 1086

Method 8040, Phenois, 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 19788.

Analyst Cipher

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## 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:	05-03-01
Laboratory Number:	05-02-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	05-02-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

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

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

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

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

Comments: QA/QC for sample 19788.

Analyst Cylum Christian michete



## 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:	05-03-01
Laboratory Number:	19788	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Extracted: .	N/A
Condition:	N/A	Date Analyzed:	05-02-01
·	·	Analysis Requested:	TCLP

-	Sample Result	Duplicate Result	Percent	Det. Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.077	0.076	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.088	0.088	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Maximum Difference
		8090 Compounds	30%
References:	Method 3510, Separatory	naracteristic Leaching Procedure, SW-8 Funnel Liquid-Liquid Extraction, SW-8 atics and Cyclic Ketones, SW-846, USE	46, USEPA, July 1992.
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C section	261.24, July 1, 1992. -

Comments:

QA/QC for sample 19788.

Analyst C. Cefferen

Ahristen ny Naiten



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

Client: Sample ID: Laboratory Number: Sample Matrix: Analysis Requested: Condition:		QA/QC 05-02-TCM 19788 Water TCLP Metals	· .	Project #: Date Report Date Sample Date Receiv Date Analyz Date Extract	ed: ed: ed:		N/A 05-02-01 N/A N/A 05-02-01 N/A
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% 0.105	Acceptance 0.107
Arsenic	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Barium	ND	ND	0.001	0.035	0.035	0.0%	0% - 30%
Cadmium	ND	ND	0.001	0.005	0.005	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.331	0.328	0.9%	0% - 30%
Lead	ND	ND	0.001	0.339	0.333	1.8%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Spike	•	Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/L)		Added		Sample	Recovery	•	Range
Arsenic		0.500	0.006	0.505	99.8%		80% - 120%
Barium		0.500	0.035	0.533	99.6%		80% - 120%
Cadmium		0.500	0.005	0.506	100.2%		80% - 120%
Chromium		0.500	0.331	0.829	99.8%		80% - 120%
Lead		0.500	0.339	0.834	99.4%		80% - 120%
Mercury		0.050	ND	0.049	98.0%		80% - 120%
Selenium		0.500	0.001	0.500	99.8%	•	80% - 120%
Silver		0.500	ND	0.499	99.8%		80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 19788.

Analyst

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Client / Project Name	•		Project Location						<del></del>		ANALV	CIC / DA	DARACTO	TDC			
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Sample No./	Sample Date	Sample 1 Time	Lab Number		Sample Matrix		No. of Containers	47 H. H. H. F. H. F. P.							<del></del>		
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District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Protect III - (505) 334-6178 Rio Brazos Road A...C, NM 87410 District IV - (505) 827-7131

(This space for State Use)

APPROVED BY:

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus I Copy to appropriate District Office

Env. J

JN: 97057-38

SITIET 1V - (303) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Donn't Foust  6.5.01  14:30 AS Contraction	4. Generator EPFS
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Blanco Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Riley.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marico
7. Location of Material (Street Address or ULSTR)	HZ NZ Sac 14, T. 29 NRIIW SHOW Juan CO DM
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	for transport.
Continuation of disposur of Solis  Contest pond.  C	S and Water from
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) ————— cy
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: TELI	DATE: 6.5.01  EPHONE NO. 505-632-0615

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

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus I Copy to appropriate District Office

Env. JN: <u>97657-38</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Donn't Foust 6.5.01 14:30 AS Contraveti	4. Generator EPFS
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Blanco Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Riley.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marico
7. Location of Material (Street Address or ULSTR)	HZNZ SECIY, TIZONRIIW SAW Juan CO AM
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
Continuation of disposur of Soliv Contest pond	s mad Water from
	SUN 2001 ON CONTRACTOR OF THE STATE OF THE S
Estimated Volume 300 bbl cy Known Volume (to be entered by the open	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 6.5.01  EPHONE NO. 505-632-0615
APPROVED BY: Deny Tent TITLE: G-03/09	DATE: 6/8/8/
APPROVED BY: TITLE:	DATE:

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Blanco Plant	N/2 of N/2 of Section 14, T29N, R11W, San Juan Co., NM
Attach list of originating sites as appropriate	
Source and Description of Waste	
Solids and water from contact wastewater skimmer	pond.
·	
ı, David Bays	representative for:
(Print Name)	
El Paso Field Services	Co do hereby certify that,
according to the Resource Conservation and Record	very Act (RCRA) and Environmental Protection Agency's July,
1988 regulatory determination, the above described	waste is. (Check appropriate classification)
	NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification
LALIM 1 Official waste	indicate the distribution by product identification
and that nothing has been added to the exempt or i	non-hazardous waste defined above.
For NON-EXEMPT waste only, the following docum	nentation is attached (check appropriate items):
MSDS Information	Other (description)
X RCRA Hazardous Waste Analys Chain of Custody	is ,
Name (Original Signature):	Bey
Title: Principal Er	nvironmental Scientist
Date: 6-5-01	

April 13, 2001

El Paso Field Services Attn: David Bays 614 Reilly Avenue Farmington, New Mexico 87401

505-599-2256

Fax 505-599-2119

Re: Results of w

Results of water analysis, Blanco Plant - oil/water separator

Dear David:

Envirotech has completed analysis of a water sample collected on Wednesday, April 11, 2001 from the oil / water separator located in the south central portion of the Blanco Plant on County Road 4900. The water sample was delivered cool and intact to our laboratory. Collection and transportation were documented on Chain of Custody #9207.

The water sample was analyzed for BTEX constituents by USEPA Method 8021 and for TCLP Metals by USEPA Method 1311 (Toxicity Characteristic Leaching Procedure for trace metal analysis. Results of the analysis indicate that BTEX constituents are all none detect and TCLP Metals concentrations are all well below Maximum Allowable Concentrations detailed in Table 1, 40 CFR 261.24.

Please complete a Certificate of Waste Status for Oilfield Non-exempt Waste and forward it to our office. We will complete additional paperwork necessary to obtain NMOCD approval for remediation of sludge generated during cleanup of the oil/water separator.

If you have questions or comments regarding this project please feel free to contact us at 505-632-0615.

Sincerely,

Envirotech Inc.

Harlan M. Brown

Geologist / Hydrogeologist

New Mexico Certified Scientist #083



## **EPA METHOD 8021** AROMATIC VOLATILE ORGANICS

Client:	EPFS - Blanco Plant	Project #:	97057-038
Sample ID:	Grab	Date Reported:	04-12-01
Chain of Custody:	9207	Date Sampled:	04-11-01
Laboratory Number:	19541	Date Received:	04-11-01
Sample Matrix:	Water	Date Analyzed:	04-12-01
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter ,	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	ND	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.2
o-Xylene	ND	1	0.1

ND **Total BTEX** 

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

Oil / Water Separator.



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-12-BTEX QA/QC	Date Reported:	04-12-01
Laboratory Number:	19533	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-12-01
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits	s (ug/L)	I-Cal RF:			Blank Conc	Detect. Limit	
Benzene		3.2255E-002	3.2333E-002	0.2%	ND	0.2	
Toluene		4.0199E-002	4.0271E-002	0.2%	ND	0.2	
Ethylbenzene		7.0232E-002	7.0380E-002	0.2%	ND	0.2	
p,m-Xylene		6.3376E-002	6.3535E-002	0.3%	ND	0.2	
o-Xylene	/	5.4448E-002	5.4541E-002	0.2%	ND	0.1	

Duplicate Conc. (ug/Kg)	Sample D	uplicate	%Diff.	Accept Range	Detect. Limit
Benzene	2.8	2.7	3.6%	0 - 30%	1.8
Toluene	21.8	21.4	1.8%	0 - 30%	1.7
Ethylbenzene	81.9	80.3	2.0%	0 - 30%	1.5
p,m-Xylene	466	457	1.9%	0 - 30%	2.2
o-Xylene	182	180	1.4%	0 - 30%	1.0

Spike Conc. (úg/Kg)	Sample Amo	ount Spiked Spik	ed Sample	% Recovery	Accept Range
Benzene	2.8	50.0	52.8	100%	39 - 150
Toluene	21.8	50.0	71.6	100%	46 - 148
Ethylbenzene	81.9	50.0	131	99%	32 - 160
p,m-Xylene	466	100	561.	99%	46 - 148
o-Xylene	182	50.0	230	99%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for samples 19533 - 19541.

Analyst

/ Musting Malley
Review



## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	EPFS - Blanco Plant	Project #:	.97057-038
Sample ID:	Grab	Date Reported:	04-12-01
Laboratory Number:	19541	Date Sampled:	04-11-01
Chain of Custody:	9207	Date Received:	04-11-01
Sample Matrix:	Water	Date Analyzed:	04-12-01
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter_	(mg/L)	(mg/L)	(mg/L)
	/		
Arsenic	0.001	0.001	5.0
Barium	0.061	0.001	100
Cadmium	0.008	0.001	1.0
Chromium	0.021	0.001	5.0
Lead	0.025	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	0.003	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:

Oil / Water Separator.

Analyst . (Selecce

Misteri m Lasters



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

Client:	QA/QC	Project #:	N/A
Sample ID:	04-12-TCM QA/QC	Date Reported:	04-12-01
Laboratory Number:	19541	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	04-12-01
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	aran iku ka	Duplicate	% 0.105	Acceptance 0.107
Arsenic	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Barium	ND	ND	0.001	0.061	0.060	1.6%	0% - 30%
Cadmium	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Chromium	<sup>/</sup> ND	ND	0.001	0.021	0.021	0.0%	0% - 30%
Lead	ND	ND	0.001	0.025	0.025	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%

Spike	Spike	Sample	Spiked	Percent	Acceptance
Conc. (mg/L)	Added:		Sample	Recovery	Range
Arsenic	0.500	0.001	0.500	99.8%	80% - 120%
Barium	0.500	0.061	0.559	99.6%	80% - 120%
Cadmium	0.500	0.008	0.507	99.8%	80% - 120%
Chromium	0.500	0.021	0.520	99.8%	80% - 120%
Lead	0.500	0.025	0.525	100.0%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	0.003	0.502	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19541 - 19542.

Analyst

Review

## **CHAIN OF CUSTODY RECORD**

09207

Client / Project Name	nco Pla	mt.	Project Location	· Sapar	ator		ANALYSIS / PARAMETERS				10 F					
Sampler: Client No. 9705		57-0		, c	Containers	802( Bres	of g				Re	emarks	i			
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix		2	Cont	9 28	13							
Grab	4.11.01	9:10	19541	<u></u>	vater	-	3									
						-										
			ļ													
	<u> </u>							•								
	<u> </u>													···		
Relinquished by: (Signatu		 >		Date 4 .((.0)		Received				bete	44			Date	Ti	 m. 
Relinquished by: (Signatu						A Received	d by: (	(Signatu	re)					11-01		-
Relinquished by: (Signatu	rie)					Received	d by: (	(Signatu	re)							
				ENY	IROT	ΓEC	H	In	<u>.</u>				Sample R	eceipt	<u> </u>	I
		ì		5	5796 U.S.	. Highw	ay 6	64				Received	I Intact	Y	N	N/A
				Farmi	ington, No (505)	ew Mex 632-06		87401				Cool - ice/		V	_	

- (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P1-trict III - (505) 334-6178

Rio Brazos Road

APPROVED BY

~\_c, NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN:

97057-041

trict IV - (505) 827-7131	Env. JN: 7 1057-041
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Solver Forst	4. Generator EPFS
Verbal Approval Received: Yes 🔲 No 🔀.	5. Originating Site Chase Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PhillipSarvice
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	
7. Location of Material (Street Address or ULSTR)	8. State Now Maples Sw4, SEC16, TZGN, R(ZW) Swy Transcount du
D. Circle One:	3
Generator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned.	n of origin. No waste classified hazardous b
Hydroconbon conteminated soils from  Drain Line.  JUN :  RECE!  OILOON  DIST	2001 MAY 2001
DIST.	NEW CHEL
Stimated Volume ————————————————————————————————————	

TITLE: Environmental Godgsx

<u>District I</u> - (505) 393-6161 P. O. B호텔왕80 Hobbs. NM 88241-1980 Dis rice II - (505) 748-1283 811 S. First

" trict III - (505) 334-6178

District IV - (505) 827-7131

APPROVED BY:\_

Rio Brazos Road

Arceia, NM 88210

n\_ == c, NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 97057-041

DATE:

	。 《大学》(1965年)1966年(1967年) 1966年1968年 - 1966年 - 1
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Doug Foust  5:21:01  15:35	4. Generator EPFS
Verbal Approval Received: Yes 🔲 No 🔀.	5. Originating Site Chaco Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Phillip Services
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Nama Hapolco
7. Location of Material (Street Address or ULSTR)	SW4, SEC 16, TZGW, RIZW SAW Jugar County Duy
9. Circle One:	J
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accorded PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Androcarhou conteminated soils for	om closurp of leak @
Hydroconbon contaminated soils for Drain Line.	MAY 2001
	PECEIVED ONLOW DIST.
	MAY 2001 RECEIVED ONLOON, DIV DIST. 3
Estimated Volume ————————————————————————————————————	erator at the end of the haul) cy
	<del></del>
SIGNATURE: Waste Management Facility Authorized Agent  TITLE: Landfarm Ma	DATE: 5 · 21 · 0
Harlan M. Brown	EPHONE NO
(This space for State Use)	
APPROVED BY: Deny Feen TITLE: Geolo	9/3/ DATE: 5/25/01

TITLE:

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Chaco Plant	SW/4 Section 16, T26N, R12W, San Juan Co., NM
Attach list of originating sites as appropriate	
Source and Description of Waste	
Hydrocarbon contaminated soils from Chaco Plant of	drain system leak.
ı, David Bays	
(Print Name)	
El Paso Field Services	Co do hereby certify that,
	very Act (RCRA) and Environmental Protection Agency's July,
	ION-EXEMPT oilfield waste which is non-hazardous by
	haracteristic analysis or by product identification
·	
and that nothing has been added to the exempt or n	non-hazardous waste defined above.
For <b>NON-EXEMPT</b> waste only, the following docum	entation is attached (check appropriate items).
MSDS Information	Other (description)
X RCRA Hazardous Waste Analysi Chain of Custody	S
	$0 \mathcal{R}$ .
Name (Original Signature):	d 1day-
Title: Principal En	vironmental Scientist
Date: May 17, 200	01





Pinnacle Lab ID number April 12, 2001 103064

PHILIP.ENVIRONMENTAL 4000 MONROE ROAD FARMINGTON, NM 87401

EL PASO FIELD SERVICES 614 RIELLY STREET FARMINGTON, NM 87401

Project Name

**EPFS CHACO SPILL CHARACTERIZATION** 

Project Number

62800439

Attention:

ROBERT THOMPSON/SCOTT POPE

On 03/23/01 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 8015 analyses were performed by Pinnacle Laboratories, Inc. Albuquerque, NM.

All other analyses were performed by Severn Trent Laboratories, Inc. Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.

General Manager

MR: jt

Enclosure





CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 103064
PROJECT #	: 62800439	DATE RECEIVED	: 03/23/01
PROJECT NAME	: EPFS CHACO SPILL CHARACTERIZATION	REPORT DATE	: 04/12/01
PINNACLE			DATE
ID#	CLIENT DESCRIPTION	MATRIX	COLLECTED
103064 - 01	BH-1 COMPOSITE	NON-AQ	03/21/01
103064 - 02	BH-1 BOTTOM	NON-AQ	03/21/01
103064 - 03	BH-2 BOTTOM	NON-AQ	03/21/01
103064 - 04	BH-3 BOTTOM	NON-AQ	03/21/01
103064 - 05	BH-4 BOTTOM	NON-AQ	03/21/01
103064 - 06	BH-5 BOTTOM	NON-AQ	03/21/01

File: '103054; COVEREP





## GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: PHILIP ENVIRONMENTAL

PINNACLE I.D.: 103064

PROJECT #

: 62800439

PROJECT NAME

: EPFS CHACO SPILL CHARACTERIZATION

SAMPLE				DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
01	BH-1 COMPOSITE		NON-AQ	03/21/01	03/25/01	03/26/01	50	
02	BH-1 BOTTOM		NON-AQ	03/21/01	03/25/01	03/26/01	50	
03	BH-2 BOTTOM		NON-AQ	03/21/01	03/25/01	03/29/01	1	
PARAMET	ER	DET. LIMIT	UN	IITS	BH-1 COMPOSITE	BH-1 BOTTOM	BH-2 BOTTOM	
FUEL HYD	PROCARBONS, C6-C10	10	MG	S/KG	< 500	< 500	< 10	
FUEL HYD	PROCARBONS, C10-C22	10	MG	KG	1200	1400	10	
FUEL HYD	PROCARBONS, C22-C36	10	MG	s/KG	12000	9400	20	
CALCULA	TED SUM:				13200	10800	30	
SURROGA						~/~ *	00	
O-TERPHE	ENYL (%) ATE LIMITS	( 66 - 151 )			n/a *	n/a *	82	
		( 00 - 10 1 )						

## **CHEMIST NOTES:**

<sup>\* =</sup> Surrogate recovery not obtainable due to necessary sample dilution.





### GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: PHILIP ENVIRONMENTAL

**PINNACLE I.D.: 103064** 

PROJECT#

: 62800439

PROJECT NAME

: EPFS CHACO SPILL CHARACTERIZATION

SAMPLE				DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
04	BH-3 BOTTOM		NON-AQ	03/21/01	03/25/01	03/29/01	1	
05	ВН-4 ВОТТОМ		NON-AQ	03/21/01	03/25/01	03/29/01	1	
06	BH-5 BOTTOM		NON-AQ	03/21/01	03/25/01	03/29/01	20	
PARAMET	ER	DET. LIMIT	UN	IITS	вн-з воттом	ВН-4 ВОТТОМ	Вн-5 ВОТТОМ	
FUEL HYD	PROCARBONS, C6-C10	10	MG	KG	< 10	< 10	< 200	
FUEL HYD	PROCARBONS, C10-C22	10	MG	/KG	< 10	< 10	210	
FUEL HYE	PROCARBONS, C22-C36	10	MG	i/KG	67	< 10	6200	
CALCULA	TED SUM:				67		6410	
SURROGA	ATE:							
O-TERPHE	ENYL (%)				80	83	n/a*	
SURROGA	ATE LIMITS	(66 - 151)						

## CHEMIST NOTES:

<sup>\* =</sup> Surrogate recovery not obtainable due to necessary sample dilution.



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

## GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

BLANK I.D.

: 032501

PINNACLE I.D.

: 103064

CLIENT

: PHILIP ENVIRONMENTAL

DATE EXTRACTED

: 03/25/01

PROJECT#

DATE ANALYZED

: 03/25/01

: 62800439

PROJECT NAME

: EPFS CHACO SPILL CHARACTERIZATION SAMPLE MATRIX

: NON-AQ

PARAMETER		UNITS		
FUEL HYDROCARBONS, O	C6-C10	MG/KG	< 10	
FUEL HYDROCARBONS, O	C10-C22	MG/KG	< 10	
FUEL HYDROCARBONS, (	C22-C36	MG/KG	< 10	
SURROGATE: O-TERPHENYL (%)			82	
SURROGATE LIMITS	( 80 - 151 )			

CHEMIST NOTES:

N/A





## GAS CHROMATOGRAPHY QUALITY CONTROL **MSMSD**

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

MSMSD#

: 103040-10

PINNACLE I.D.

103064

CLIENT

: PHILIP ENVIRONMENTAL

DATE EXTRACTED

03/25/01

PROJECT#

: 62800439

DATE ANALYZED

03/26/01

PROJECT NAME

: EPFS CHACO SPILL CHARACTERIZATION

SAMPLE MATRIX

NON-AQ

**UNITS** 

MG/KG

					0					
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD	
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS	
FUEL HYDROCARBONS	<10	200	198	99	194	97	2	(56 - 148)	20	

CHEMIST NOTES:

N/A

(Spike Sample Result - Sample Result)

% Recovery =

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

Average Result



LOG NO: C1-03635 Received: 24 MAR 01 Reported: 06 APR 01

Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 12071049

KEROKI OF KESOUI	REPOR	RT OF	RES	$\mathtt{ULTS}$
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Page 1 DATE/

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISO	LID SAMPLES	TIME SAMPLED
03635-1	BH-1 COMPOSITE/103064-01		03-21-01/13:30
PARAMETER		03635-1	
pH (9045C), Dilution Fac Prep Date Analysis Dat Batch ID Prep Method Analyst	units ctor te	8.6 1 03.24.01 03.24.01 PHS054 9045C CR	
Ignitability Prep Date Analysis Date Batch ID Prep Method Analyst		>100 03.26.01 03.26.01 FPX010 SW1010 WG	
Dilution Fac Prep Date Analysis Dat Batch ID Prep Method Analyst	te	<0.25 1 03.28.01 03.28.01 RCX012 7.3.3.2 BH	



LOG NO: C1-03635 Received: 24 MAR 01 Reported: 06 APR 01

Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

### REPORT OF RESULTS

Page 2 DATE/

LOG NO SAMPLE DESCRIPTION , SOLID OR	SEMISOLID SAMPLES TIME SAMPLED
0 3635-1 BH-1 COMPOSITE/103064-01	03-21-01/13:30
PARAMETER	03635-1
Total Releasable Sulfide (SW7.3.4.2), mg Dilution Factor Prep Date Analysis Date Batch ID Prep Method Analyst	H2S/kg <150 1 03.28.01 03.28.01 RSX012 7.3.4.2 BH
RCRA Metals in TCLP Extract (6010B) Arsenic (TCLP), mg/l Barium (TCLP), mg/l Cadmium (TCLP), mg/l Chromium (TCLP), mg/l Lead (TCLP), mg/l Selenium (TCLP), mg/l Silver (TCLP), mg/l Dilution Factor Prep Date Analysis Date Batch ID Prep Method Analyst	<0.025 1.9 <0.025 <0.025 <0.025 <0.050 <0.025 5 03.28.01 03.29.01 PT147 3010A GSP



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Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES TIME SAMPLED  03635-1 BH-1 COMPOSITE/103064-01 03-21-01/13:30  PARAMETER 03635-1  Mercury (TCLP) (7470A), mg/l < 0.0020 Dilution Factor 10 Prep Date 03.28.01 Analysis Date 03.28.01 Batch ID HGW009 Prep Method 7470A Analyst JDE		KEE	PORT OF RESULTS		rage 3
PARAMETER       03635-1         Mercury (TCLP) (7470A), mg/l       <0.0020	LOG NO	SAMPLE DESCRIPTION , SOLI	O OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	
Mercury (TCLP) (7470A), mg/l       <0.0020	03635-1	BH-1 COMPOSITE/103064-01		03-21-01/13:30	
Mercury (TCLP) (7470A), mg/l       <0.0020	PARAMETER			1	
	Dilution Prep Date Analysis Batch ID Prep Meth	CCLP) (7470A), mg/l Factor e Date	<0.002 1 03.28.0 03.28.0 HGW00 7470	0 1 1 9 A	



LOG NO: C1-03635 Received: 24 MAR 01 Reported: 06 APR 01

Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

## REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID (	OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
03635-1	BH-1 COMPOSITE/103064-01		03-21-01/13:30
PARAMETER		03635-1	
Cresol (o	les in TCLP Extract (8270C) ortho) (TCLP), mg/l	<0.050	
2,4-Dinit	& p (TCLP), mg/l rotoluene (TCLP), mg/l	<0.050 <0.010	•
	obenzene (TCLP), mg/l obutadiene (TCLP), mg/l	<0.010 <0.020	
	oethane (TCLP), mg/l ene (TCLP), mg/l	<0.020 <0.020	
	rophenol (TCLP), mg/l chlorophenol (TCLP), mg/l	<0.050 <0.050	
	chlorophenol (TCLP), mg/l (TCLP), mg/l	<0.050 <0.020	
	- 2-Fluorobiphenyl - 2-Fluorophenol	63 % 33 %	
	- Nitrobenzene-d5 - Phenol-d5	56 % 44 %	
	<ul><li>Terphenyl-d14</li><li>2,4,6-Tribromophenol</li></ul>	90 % 75 %	
Dilution Prep Date	Factor	2 03.27.01	
Analysis Batch ID		04.04.01 ALW185	·
Prep Metho Analyst	od	1311 RW	



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Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , SOLID	OR SEMISOLID SAMPLES TIME SAMPLED
03635-1 BH-1 COMPOSITE/103064-01	03-21-01/13:30
PARAMETER	03635-1
Volatiles in ZHE TCLP Extract (8260B)	
Benzene (TCLP), mg/l	<0.025
Carbon tetrachloride (TCLP), mg/l	<0.025
Chlorobenzene (TCLP), mg/l	<0.025
Chloroform (TCLP), mg/l	<0.025
1,4-Dichlorobenzene (TCLP), mg/l	<0.025
1,2-Dichloroethane (TCLP), mg/l	<0.025
1,1-Dichloroethylene (TCLP), mg/l	<0.025
Methyl ethyl ketone (TCLP), mg/l	<0.25
Tetrachloroethylene (TCLP), mg/l	<0.025
Trichloroethylene (TCLP), mg/l	<0.025
Vinyl chloride (TCLP), mg/l	<0.025
Surrogate - Dibromofluoromethane	113 %
Surrogate - Toluene-d8	100 %
Surrogate - 4-Bromofluorobenzene	97 %
Dilution Factor	5
Prep Date	03.26.01
Analysis Date	03.29.01
Batch ID	LET052
Prep Method	5030B
Analyst	LAD
Percent Solids	89



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Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

DATE/

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOL	ID/SEMISOLID T	IME SAMPLEI	)
03635-3	Method Blank Lab Control Standard % Recovery			
PARAMETER		03635-2	03635-3	
pH (9045C) Dilution Prep Date Analysis I Batch ID Prep Metho	, units Factor Date	N/A  		
Ignitabili Prep Date Analysis I Batch ID Prep Metho Analyst			104 % 03.26.01 03.26.01 FPX010 SW1010 WG	
Total Release Dilution In Prep Date Analysis In Batch ID Prep Method Analyst	Date	<0.25 1 03.28.01 03.28.01 RCX012 7.3.3.2 BH	1 03.28.01 03.28.01 RCX012	



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Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

	REPORT OF REPOR	10		rage /
			DATE/	
LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOL	ID/SEMISOLID 1	TIME SAMPLED	
	Method Blank Lab Control Standard % Recovery			
PARAMETER		03635-2	03635-3	
Total Rele Dilution Prep Data Analysis Batch ID Prep Meth Analyst	e Date	1 03.28.01 03.28.01 RSX012	1 03.28.01 03.28.01 RSX012 7.3.4.2	·
Arsenic Barium (7 Cadmium Chromium Lead (TCI Selenium Silver (7 Dilution Prep Date Analysis Batch ID Prep Meth	Date	03.29.01 PT147 3010A	102 % 103 % 102 % 105 % 106 % 1 03.28.01 03.29.01 PT147 3010A	
Analyst		GSP	GSP	



LOG NO: C1-03635 Received: 24 MAR 01 Reported: 06 APR 01

Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR		DATE/ IME SAMPLED	_
03635-2 03635-3	Method Blank Lab Control Standard % Recovery			
PARAMETER		03635-2	03635-3	
Mercury (T Dilution Prep Date Analysis Batch ID Prep Meth Analyst	Date	<0.0020 10 03.28.01 03.28.01 HGW009 7470A JDE	100 % 10 03.28.01 03.28.01 HGW009 7470A JDE	



LOG NO: C1-03635 Received: 24 MAR 01 Reported: 06 APR 01

Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

LOG NO. COMPLE PEGGETERION OF PEROPE FO		DATE/	_
LOG NO SAMPLE DESCRIPTION , QC REPORT FO	R SOLID/SEMISOLID .	TIME SAMPLE	) 
03635-2 Method Blank			
03635-3 Lab Control Standard % Recovery			
PARAMETER	03635-2	03635-3	
Semivolatiles in TCLP Extract (8270C)			
Cresol (ortho) (TCLP), mg/l	<0.025	71 %	
Cresol m & p (TCLP), mg/l	<0.025	84 %	
2,4-Dinitrotoluene (TCLP), mg/l		83 %	
Hexachlorobenzene (TCLP), mg/l	<0.0050	86 %	
Hexachlorobutadiene (TCLP), mg/l	<0.010	61 %	
Hexachloroethane (TCLP), mg/l	<0.010	59 %	
Nitrobenzene (TCLP), mg/l		81 %	
Pentachlorophenol (TCLP), mg/l.	<0.025	77 %	
2,4,5-Trichlorophenol (TCLP), mg/l		69 ક	
2,4,6-Trichlorophenol (TCLP), mg/l	<0.025	77 %	
Pyridine (TCLP), mg/l	<0.010	· 53 %	
Surrogate - 2-Fluorobiphenyl	— · · · ·	79 %	
Surrogate ~ 2-Fluorophenol	50 %	57 %	
Surrogate - Nitrobenzene-d5	62 %	78 %	
Surrogate - Phenol-d5	60 %	69 %	
Surrogate - Terphenyl-d14	96 %	93 %	
Surrogate - 2,4,6-Tribromophenol	63 %	92 %	
Dilution Factor	1	1	
Prep Date		03.27.01	
Analysis Date	03.29.01	03.29.01	
Batch ID	ALW185	ALW185	
Prep Method	3550B	1311	
Analyst		RW	,-,



LOG NO: C1-03635 Received: 24 MAR 01 Reported: 06 APR 01

Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SO		DATE/ 'IME SAMPLEI	
03635-2 Method Blank 03635-3 Lab Control Standard % Recovery			
PARAMETER		03635-3	
Volatiles in ZHE TCLP Extract (8260B)		102 9	
Benzene (TCLP), mg/l		103 %	
Carbon tetrachloride (TCLP), mg/l	<0.025		
Chlorobenzene (TCLP), mg/l	<0.025		,
Chloroform (TCLP), mg/l	<0.025		
1,4-Dichlorobenzene (TCLP), mg/l	<0.025		
1,2-Dichloroethane (TCLP), mg/l	<0.025		
1,1-Dichloroethylene (TCLP), mg/l		102 %	
Methyl ethyl ketone (TCLP), mg/l	<0.25		
Tetrachloroethylene (TCLP), mg/l	<0.025		,
Trichloroethylene (TCLP), mg/l	<0.025		
Vinyl chloride (TCLP), mg/l	<0.025		
Surrogate - Dibromofluoromethane		109 %	
Surrogate - Toluene-d8	98 %	100 %	
Surrogate - 4-Bromofluorobenzene	99 %		
Dilution Factor	5	1	
Prep Date	03.26.01		
Analysis Date	03.29.01	03.29.01	
Batch ID	LET052	LET052	
Prep Method	5030B	5030B	
Analyst	LAD	LAD	



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Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

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03635-4 Matrix Spike % Recovery 03635-5 Matrix Spike Duplicate % Recovery  PARAMETER 03635-4 03635-5  RCRA Metals in TCLP Extract (6010B) Arsenic (TCLP), mg/l 108 % 104 % Barium (TCLP), mg/l 105 % 100 % Cadmium (TCLP), mg/l 105 % 102 % Chromium (TCLP), mg/l 105 % 102 % Selenium (TCLP), mg/l 106 % 103 % Selenium (TCLP), mg/l 106 % 103 % Silver (TCLP), mg/l 106 % 100 % Dilution Factor 5 5 Prep Date 03.28.01 03.28.01 Analysis Date 03.29.01 03.29.01 Batch ID PT147 PT147 Prep Method 3010A 3010A Analyst GSP GSP  Mercury (TCLP) (7470A), mg/l 100 % 100 % Dilution Factor 10 10 Prep Date 03.28.01 03.28.01 Analysis Date 03.28.01 03.28.01 Analysis Date 03.28.01 03.28.01 Batch ID HGW009 Prep Method 7470A 7470A Analyst JDE JDE  Semivolatiles in TCLP Extract (8270C) Cresol (ortho) (TCLP), mg/l NoMS NOMS Prep Method 3550B 3550B	LOG NO	SAMPLE DESCRIPTION	, QC REPORT F	OR SOLID/SEMISOLID	rime samplei	
PARAMETER       03635-4       03635-5         RCRA Metals in TCLP Extract (6010B)       108 % 104 %         Arsenic (TCLP), mg/l       103 % 100 %         Cadmium (TCLP), mg/l       105 % 104 %         Chromium (TCLP), mg/l       105 % 102 %         Chromium (TCLP), mg/l       106 % 103 %         Lead (TCLP), mg/l       106 % 103 %         Selenium (TCLP), mg/l       106 % 103 %         Silver (TCLP), mg/l       104 % 102 %         Dilution Factor       5 5         Prep Date       03.28.01 03.28.01         Analysis Date       03.29.01 03.29.01         Batch ID       PT147 PT147         Prep Method       3010A 3010A 3010A         Analyst       GSP         Mercury (TCLP) (7470A), mg/l       100 % 100 %         Dilution Factor       10 10         Prep Date       03.28.01 03.28.01         Analysis Date       03.28.01 03.28.01         Batch ID       HGW009 HGW09         Prep Method       7470A 7470A 7470A         Analyst       JDE         Semivolatiles in TCLP Extract (8270C)       Noms Noms 75500         Cresol (ortho) (TCLP), mg/l       Noms 75500	03635-4 03635-5	Matrix Spike Dupli	cate % Recover			
### RCRA Metals in TCLP Extract (6010B)  Arsenic (TCLP), mg/l 108 % 104 % 100			•	03635-4	03635-5	
Arsenic (TCLP), mg/l Barium (TCLP), mg/l Cadmium (TCLP), mg/l Chromium (TCLP), mg/l Chromium (TCLP), mg/l Chromium (TCLP), mg/l Lead (TCLP), mg/l Selenium (TCLP), mg/l Selenium (TCLP), mg/l Selenium (TCLP), mg/l Selenium (TCLP), mg/l Silver (TCLP), mg/l Silver (TCLP), mg/l Dilution Factor Spilution Factor Spilu						
Barium (TCLP), mg/l       103 % 100 %         Cadmium (TCLP), mg/l       105 % 104 %         Chromium (TCLP), mg/l       104 % 103 %         Lead (TCLP), mg/l       105 % 102 %         Selenium (TCLP), mg/l       106 % 103 %         Silver (TCLP), mg/l       104 % 102 %         Dilution Factor       5 5         Prep Date       03.28.01 03.28.01         Analysis Date       03.29.01 03.29.01         Batch ID       PT147 PT147         Prep Method       3010A 3010A         Analyst       GSP GSP         Mercury (TCLP) (7470A), mg/l       100 %         Dilution Factor       10 10         Prep Date       03.28.01 03.28.01         Analysis Date       03.28.01 03.28.01         Batch ID       HGW009 HGW009         Prep Method       7470A 7470A         Analyst       JDE JDE          Semivolatiles in TCLP Extract (8270C)       Noms Doms         Cresol (ortho) (TCLP), mg/l       Noms Doms         Prep Method       2550B				108 %	104 %	
Chromium (TCLP), mg/l  Lead (TCLP), mg/l  Selenium (TCLP), mg/l  Selenium (TCLP), mg/l  Silver (TCLP), mg/l  Dilution Factor  Prep Date  Analysis Date  Batch ID  Prep Method  Analyst  Mercury (TCLP) (7470A), mg/l  Dilution Factor  Prep Date  Manalysis Date  Batch ID  Mercury (TCLP) (7470A), mg/l  Dilution Factor  Prep Date  Manalyst  Mercury (TCLP) (7470A), mg/l  Dilution Factor  Prep Date  Manalysis Date  Batch ID  Prep Date  Manalysis Date  Batch ID  Prep Method  Analysis Date  Batch ID  Analysis Date  Batch ID  Batch		<b>3</b>		103 %	100 %	
Lead (TCLP), mg/l Selenium (TCLP), mg/l Selenium (TCLP), mg/l Silver (TCLP), mg/l Dilution Factor Dilution Factor Frep Date O3.28.01 O3.28.01 O3.28.01 O3.29.01 O3.20 OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 Dilution Factor I0 Dilution Factor I0 OSP OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 OSP OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 OSP OSP OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 OSP OSP OSP OSP OSP OSP OSP OSS OSS	Cadmium (	TCLP), mg/l		105 %	104 %	
Lead (TCLP), mg/l Selenium (TCLP), mg/l Selenium (TCLP), mg/l Silver (TCLP), mg/l Dilution Factor Dilution Factor Frep Date O3.28.01 O3.28.01 O3.28.01 O3.29.01 O3.20 OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 Dilution Factor I0 Dilution Factor I0 OSP OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 OSP OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 OSP OSP OSP  Mercury (TCLP) (7470A), mg/l Dilution Factor I0 OSP OSP OSP OSP OSP OSP OSP OSS OSS	Chromium	(TCLP), mg/l		104 %	103 %	
Silver (TCLP), mg/l       104 %       102 %         Dilution Factor       5       5         Prep Date       03.28.01       03.28.01         Analysis Date       03.29.01       03.29.01         Batch ID       PT147       PT147         Prep Method       3010A       3010A         Analyst       GSP       GSP         Mercury (TCLP) (7470A), mg/l       100 %       100 %         Dilution Factor       10       10         Prep Date       03.28.01       03.28.01         Analysis Date       03.28.01       03.28.01         Batch ID       HGW009       HGW009         Prep Method       7470A       7470A         Analyst       JDE       JDE          Semivolatiles in TCLP Extract (8270C)       NoMS       NoMS         Cresol (ortho) (TCLP), mg/l       NoMS       NoMS	Lead (TCL	P), mg/l		105 %	102 %	
Dilution Factor  Prep Date  Analysis Date  Batch ID  Prep Method  Analyst  Mercury (TCLP) (7470A), mg/l  Dilution Factor  Prep Date  Analysis Date  Batch ID  Prep Method  Analyst  Mercury (TCLP) (7470A), mg/l  Dilution Factor  Prep Date  Analysis Date  Batch ID  Prep Method  Analysis Date  Batch ID  Prep Method  Analyst  Semivolatiles in TCLP Extract (8270C)  Cresol (ortho) (TCLP), mg/l  DIMBER Method  NoMS  No	Selenium	(TCLP), mg/l		106 %	103 %	
Prep Date       03.28.01       03.28.01       03.28.01         Analysis Date       03.29.01       03.29.01       03.29.01         Batch ID       PT147       PT147         Prep Method       3010A       3010A         Analyst       GSP       GSP         Mercury (TCLP) (7470A), mg/l       100 %       100 %         Dilution Factor       10       10         Prep Date       03.28.01       03.28.01         Analysis Date       03.28.01       03.28.01         Batch ID       HGW009       HGW009         Prep Method       7470A       7470A         Analyst       JDE       JDE     Semivolatiles in TCLP Extract (8270C)  Cresol (ortho) (TCLP), mg/l  NoMS	Silver (T	CLP), mg/l				
Analysis Date Batch ID Prep Method Analyst  Mercury (TCLP) (7470A), mg/l Dilution Factor Prep Date Analysis Date Batch ID PT147 PT14	Dilution	Factor				
Batch ID       PT147       PT147         Prep Method       3010A       3010A         Analyst       GSP       GSP         Mercury (TCLP) (7470A), mg/l       100 %       100 %         Dilution Factor       10       10         Prep Date       03.28.01       03.28.01         Analysis Date       03.28.01       03.28.01         Batch ID       HGW009       HGW009         Prep Method       7470A       7470A         Analyst       JDE       JDE     Semivolatiles in TCLP Extract (8270C)  Cresol (ortho) (TCLP), mg/l  Noms  No	Prep Date					
Prep Method       3010A       3010A         Analyst       GSP       GSP         Mercury (TCLP) (7470A), mg/l       100 %       100 %         Dilution Factor       10       10         Prep Date       03.28.01       03.28.01         Analysis Date       03.28.01       03.28.01         Batch ID       HGW009       HGW009         Prep Method       7470A       7470A         Analyst       JDE       JDE    Semivolatiles in TCLP Extract (8270C) Cresol (ortho) (TCLP), mg/l Noms N	Analysis	Date				
Analyst GSP GSP  Mercury (TCLP) (7470A), mg/l 100 % 100 % 100 prep Date 10 03.28.01	Batch ID					
Mercury (TCLP) (7470A), mg/l 100 % 100 % 100 prep Date 03.28.01 03	Prep Meth	od				
Dilution Factor Prep Date O3.28.01 O3.2	Analyst			, GSP	GSP	
Prep Date       03.28.01       03.28.01         Analysis Date       03.28.01       03.28.01         Batch ID       HGW009       HGW009         Prep Method       7470A       7470A         Analyst       JDE       JDE         Semivolatiles in TCLP Extract (8270C)         Cresol (ortho) (TCLP), mg/l       NoMS       NoMS         Prep Method       3550P       3550P	Mercury (T	CLP) (7470A), mg/l				
Analysis Date  Batch ID  Prep Method  Analyst  Semivolatiles in TCLP Extract (8270C)  Cresol (ortho) (TCLP), mg/l  D3.28.01  HGW009  HGW009  HGW009  HGW009  Type JDE  Noms  Noms  Noms  Noms  Noms  Noms  Noms	Dilution	Factor		10	10	
Batch ID Prep Method Analyst  Semivolatiles in TCLP Extract (8270C) Cresol (ortho) (TCLP), mg/l  Prep Method T470A T470A JDE JDE  Noms Noms Noms Telep Method TCLP in TCLP Extract (8270C)	Prep Date					
Prep Method Analyst  Semivolatiles in TCLP Extract (8270C) Cresol (ortho) (TCLP), mg/l  NoMS Nom	Analysis	Date				
Analyst JDE JDE  Semivolatiles in TCLP Extract (8270C)  Cresol (ortho) (TCLP), mg/l NoMS NoMS  The Mathed 2550P 3550P	Batch ID					
Semivolatiles in TCLP Extract (8270C) Cresol (ortho) (TCLP), mg/l NoMS NoMS 2550P		od		7470A	7470A	
Cresol (ortho) (TCLP), mg/l NoMS NoMS	Analyst			JDE	JDE	
Cresol (ortho) (TCLP), mg/l NoMS NoMS	Semivolati:	les in TCLP Extract	(8270C)			
Duran Mathed			•	NoMS	NoMS	
	Dann Makh	1				



LOG NO: C1-03635 Received: 24 MAR 01 Reported: 06 APR 01

Ms. Jacinta Tenorio Pinnacle Laboratories 2709-D Pan American Freeway Northeast Albuquerque, NM 87107

Larson, Project Manager

Project: 103064, PHIL EPFS CHACO SPILL CHARACTERIZATION

Sampled By: Client

Code: 07431046

REPORT OF RESULTS

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LOG NO SAMPLE DESCRIPTION , QC REPORT FOR SOLID/S		ATE/ ME SAMPLED	,
03635-4 Matrix Spike % Recovery 03635-5 Matrix Spike Duplicate % Recovery			
PARAMETER	03635-4	03635-5	
Volatiles in ZHE TCLP Extract (8260B)  Benzene (TCLP), mg/l  Chlorobenzene (TCLP), mg/l  1,1-Dichloroethylene (TCLP), mg/l  Trichloroethylene (TCLP), mg/l  Surrogate - Dibromofluoromethane  Surrogate - Toluene-d8  Surrogate - 4-Bromofluorobenzene  Dilution Factor  Prep Date  Analysis Date  Batch ID  Prep Method  Analyst	102 % 95 % 100 % 112 % 100 % 104 % 5 03.22.01 03.28.01	100 % 109 % 5 03.22.01 03.28.01 LET052	

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Final Page Of Report



## Data Qualifiers for Final Report

STL-Pensacola Inorganio	· ·/Organic
B1	The analyte was detected in the associated method blank (sample itself is flagged even though sample is ND).
B2	The analyte was detected in the associated method stank (sample user to hagged ever though sample is ND).  The analyte was detected in the sample(s) and in the associated method blank analyzed on the day samples were
:	extruded; however, this analyte was not detected in the blank analyzed with the samples.
В3	The analyte was found in the associated blank as well as in the associated sample(s) (qualifier is applied to the sample, not
	to the blank).
B4	Sample results were corrected due to contaminants in Fractionation Blank
D	· ·
E ,	Diluted out (surrogate or spike due to sample dilution)
F	Compound concentration exceeds the upper calibration range of the instrument.
F :	The reported value is < STL-Pensacola RL and > the STL-Pensacola MDL; therefore, the quantitation is estimation (The
G	STL-PN RL is at or above lowest calibration standard in the initial calibration curve).
• :	Sample and/or duplicate result is at or below 5 X (times) the STL Reporting Limit and the absolute difference between the sample and duplicate result is at or below the STL reporting limit; therefore, the results are "in control".
H1	Sample and duplicate result is at or below the STE reporting limit, therefore, the results are in control.
111	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results
H2	exceeds the STL Reporting Limit; therefore, the results are "out of control"
J (description)	Sample and duplicate (or MS and MSD) RPD is above control limit.
· · · · ·	The analyte was positively identified, the quantitation may be an estimation
J4 .	(For positive results)Temperature limits exceeded (≤2°C or ≥ 6°C), non-reportable for NDPES compliance monitoring.
J6 ;	(For positive results) LCS or Surrogate %R is > upper control limit (UCL), results may be biased high
J7	The reported value is > the laboratory MDL and < lowest calibration standard; therefore, the quantitation is an estimation (this qualifier should only be used when the STL-PN RL is below the lowest calibration standard in the initial calibration).
10	
J8 ·	Matrix spike and post spike recoveries are outside control limits. See out of Control Events/Corrective Action Form.
J9 1	(For positive results) LCS or Surrogate %R is < lower control limit (LCL), results may be biased low  A matrix effect was present (1sample, MS or MSD was analyzed twice to confirm surrogate/spike failure, 2sample and/or
M1	MS/MSD chromatogram(s) had interfering peaks, <sup>3</sup> sample result was > 4 X spike added, <sup>4</sup> metals serial dilution was
7	performed, or <sup>5</sup> metals post spike is < 40% R)
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers)
NH.	Sample and duplicate results are "out of control". The sample is nonhomogeneous.
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)
Q	The analytical (post digestion) spike is reported due to the percent recovery being outside limits on the matrix (pre-
GE 1	digestion) spike.
R (description)	The data may be unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
R1:	(For nondetects) Temperature limits exceeded (<2°C or > 6°C); non-reportable for NDPES compliance monitoring
R2	Improper preservation, no preservative present or insufficient amounts of preservative in sample upon receipt, non-reportable
	for NDPES compliance monitoring
R3 '	Improper preservation, incorrect preservative present in sample upon receipt, non-reportable for NPDES compliance
R4	Holding time exceeded, non-reportable for NDPES compliance monitoring.
R5	Sample collection requirements not met, see case narrative.
R6	LCS or surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects/nondetects.
R7	Internal standard area outside –50% to +100% of calibration verification standard.
R8	Initial calibration or any calibration verification exceeds acceptance criteria.
R9	Not filtered and preserved at time of ∞llection.
R10	Headspace >1/4" in diameter in volatile vials, non-reportable for NPDES compliance monitoring
R11	Samples were filtered and preserved within 4 hours of collection.
R12	Analysis performed outside the 12-hour tune or not within tune criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
S2:	Incorrect sample amount was submitted to the laboratory for analysis
S3 (Flashpoint)	This method is not designed for solids and the results may not be accepted by any regulator for such purposes.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not within the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified
•	Compound.
U	The reported value is ≤ Laboratory MDL (value for result will be the MDL, never below the MDL)
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike
	absorbance.
@ !	Adjusted reporting limit due to sample composition, not due to overcal (dilution prior to digestion and/or analysis).
# [	Elevated reporting limit due to insufficient sample size
1 pt	The compound has been quantitated against a one point calibration.
* (Metals & Wet Chem)	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)

QCSI IARE/FLAGS&QUALIFIERS/STL PENSACOLA/QUALIFIERPAGE

Revised 12/20/00

## STL PENSACOLA STATE CERTIFICATIONS

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental)

State of California, Department of Health Services, Laboratory ID No. 2338 (Hazardous Waste and Wastewater)

State of Connecticut, Department of Health Services, Connecticut Lab Approval No. PH-0697 (Drinking Water, Hazardous Waste and Wastewater)

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL)

Florida DOH Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater)

Florida, Radioactive Materials License No. G0733-1

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste)

Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water)

State of Louisiana, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. LA000017 (Drinking Water)

Louisiana Department of Environmental Quality, Environmental Laboratory Accreditation Program, Agency Interest ID 30748 (Environmental - Accreditation Pending)

State of Maryland, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)

Commonwealth of Massachusetts, DEP, Laboratory ID No. M-FL094 (Hazardous Waste and Wastewater)

State of Michigan, Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)

New Hampshire DES ELAP, Laboratory ID No. 250599A (Wastewater)

State of New Jersey, Department of Environmental Protection & Energy, Laboratory ID No. 49006 (Wastewate and Hazardous Waster)

New York State, Department of Health, Laboratory ID No. 11503 (Wastewater and Solids/Hazardous Waste)

North Carolina Department of Environment & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater)

North Dakota DH&Consol Labs, Laboratory ID No. R-108 (Drinking Water, Wastewater and Hazardous Waste by Reciprocity with Florida)

State of Oklahoma, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)

Commonwealth of Pennsylvania, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water)

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater by Reciprocity with FL and Solids/Hazardous Waste by Reciprocity with CA)

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)

State of Washington, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater)

West Virginia Division of Environmental Protection, Office of Water Resources, Laboratory ID No. 136 (Hazardous Waste and Wastewater by Reciprocity with FL)

American Industrial Hygiene Association (AIHA) Accredited Laboratory, Laboratory ID No. 100704 \text{\text{word\text{\centure}}} revised 01/16/01

## STL Pensacola PROJECT SAMPLE INSPECTION FORM

control (STL-SOP 938; section 2.2.12).

Lab Order #: <u>C/03 635</u> Date Received: 3/24/01 Was there a Chain of Custody? (Yes) Were samples checked for Yes preservative? (Check pH of all H2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspacel\* Nof Was Chain of Custody properly 9. Is there sufficient volume for N/A filled out and relinquished? analysis requested? (Can) 3. Were samples received cold? N/A Were samples received within No\* (Criteria: 2° - 6°C: STL-SOP Holding Time? (REFER TO STL-SOP 1040) 4. Is Headspace visible > ¼" in Were all samples properly diameter in VOA vials?\* If labeled and identified? 5. Did samples require splitting or any headspace is evident, compositing\*? comment in out-of-control Req By: PM Client Other section. 6. 12. If sent, were matrix spike Were samples received in Yes proper containers for analysis bottles returned? requested? 7. Were all sample containers 13. Was Project Manager notified Yes received intact? of problems? (initials: Airbill Number(s): 1287816844 4345 4257 Shipped By: UPS 12878 168444350 1464 Shipping Charges: Cooler Number(s): Cooler Temp(s) (°C): 4°C 3°C 3°C 53# 51# Cooler Weight(s): Out of Control Events and Inspection Comments: (USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS) MHS Date: 3 24 01 Logged By: Inspected By: Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analyticl department will flag immediate hold time samples(pH, Dissolved O2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF. If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)" All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9). According to EPA, 1/2" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-

### Interlab Chain of Custody

Date: 3	23	Page:	of
/		. 490,	<u> </u>

Network Project M	anager:	Jacin	ta A. Tend	rio					:. ::					ANAI	YSI	S RE	QUE	ST								41.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Pinnacle Laboratories, I 2709-D Pan American I Albuquerque, New Mex (505) 344-3777 Fax (505) 344-4413	reeway							(	Sulfide				<u>₹</u>	Caca, canon	0 (0500)		(608/8082)					ds GC/MS				
SAMPLE ID	DATE	TIME	2/036 MATRIX	35 LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)	tividy (Chi	TOX 0	T0C	Chemistry:	Ignitabil	Oil and Grease	organics organics	cop	PESTICIDES/PCB (608	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (6236270 TC P	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14 NUMBER OF CONTAINERS
BH-1 Composite/103064-01	<del> </del>	1330	NAU	LAB ID	≥	X	2	2	3		-	<u> </u>	$\frac{1}{2}$	9 2	<u> </u>	10	D.	工	Δ.	$\frac{\circ}{\checkmark}$			2	<u> </u>	9	_   Z
DH-1 WINDOSING/OSCAT UT	2/2/101	,550	10010		-					$\dashv$	$\dashv$	$\dashv$	7	_	+-	-			-				-			
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					-						_		7		-	-	<del>                                     </del>								$\dashv$	
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															-									$\neg$		
·																										
PROJECT INFORMATION			SAMPLE RE	CEIPT			SAN	IPLES	SEN	T TO		1	RELI	NQUI	SED	BY:			1.	REL	INQ	UISE	D.B.	Υ;		2
PROJECT#: 103064		Total Nur	nber of Cont	ainers	T				OLA -						_	<u> </u>	Time:	<del>نائندان</del> د رسه		Signal		<del></del>			lime:	

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISED BY: 1	RELINQUISED BY: 2.
PROJECT#: 103064	Total Number of Containers	PENSACOLA - STL-FL	Signature: - J-Jime: 1700	Signature: Time:
PROJ. NAME: PHIL	Chain of Custody Seals	ESL - OR	Samene Hours 1100	
QC LEVEL: (STD? IV	Received Intact?	STL - CT	Printed Name: Date:	Printed Name: Date:
OCREQUIRED: MS MSD BLANK	Received Good Cond./Cold	ATEL - AZ	Printed Name: Date: Date: 10/1/10/3/23/01	
TAT: STANDARD RUSH!!	LAB NUMBER:	ATEL - MARION	Pinnacle Laboratories, Inc.	Company
		ATEL - MELMORE	RECEIVED BY:	RECEIVED BY: 2
DUE DATE: 416 COMMEN	TS:	BARRINGER	Signature: Time:	Signature: Time:
RUSH SURCHARGE:	·	ENVIRO TEST LABS	Mac Swaffer 1000	
CLIENT DISCOUNT:	·	WCAS	Printed Name: Date:	Printed Name: Date:
SPECIAL CERTIFICATION		WOHL	What Swotford 3/24/	
REQUIRED: YES NO			Company STOPWS	Company



## **Chain of Custody Record**

4000 Monroe Road Farmington, NM 87401

(505) 326-2262 Phone (505) 326-2388 FAX

/03004 coc Serial No. C 2874

Project Name EPFS CHAC				Bottles	Type Analy	of ysis			MODER	(D20)		/ /	//	//			
Project Number 6280043		ask 024	5.	of Bo	and E	Bottle		***/	/ / Jul	D)	/ .	/ /	<b>X</b> /	/ /	/ /	/ /	
Samplers R. THOMPSO	<u> </u>						(to	!/~/	100/L	/ /						/ /	/ /
Laboratory Name PINA				Total Number		/,0	3/		Moder	/ /	/ · /	V ( )					
Location AL	BUQUER	QUE, N	(V)	otal	//			×			$\langle \cdot \rangle$	//	/ /	/ /			
Sample Number (and depth)	Date	Time	Matrix	-	/\\\\\	r/ 4	<u>/</u>										Comments
BH-1 COMPOSITE	3/21/01	/330	5014	2	×	X	X			0	1						
BH-1 BOTTOM	3/21/01	1320	SOIL	1			×			[0	2	<u> </u>					
BH-2 BOTTOM	3/21/01	1420	SOIL	1			×			0	3						
BH-3 BOTTOM	3/21/01	1440	SOIL	1			Х			0	4						
BH-4 BOTTOM	3/21/01	1230	SOIL	1			X			0	5						
BH-5 BOTTOM	3/21/01	1625	SOIL	1			Х			0	6						
					1	\ \ \ -											
						· `	3/22	01									
											-	-	1_				
Relinquished by:							F	Recei	ved B	By:			- <del>1   .   .   .   .   .   .   .   .   .   </del>	pa, igir na arittadishi yet	the state of the s		
Signature			Date			ime		1		Signatu					Date		Time
Folet Champs	<del>)</del>		3/22/0	1	10	50		SW	nunc	j M	MI			3/2	23/0/	l	0855
<u> </u>											<u>.</u>	<del></del>					
Samples Iced:   Yes □ No Carrier: BREYHOUND LINES  Preservatives (ONLY for Water Samples) □ Cyanide						00 691 988 6											
☐ Cyanide	Sodlum hyr	, ,	Shipping ar	ıd Lab I													
☐ Volatile Organic Analysis						SEN	0 1	43	REPO	eT	70	≤co	דרי	POP	E AT	F EPI	es and
☐ TPH (418.1)				•		KOBE	RT	1 Ho	MPSOX	JA	r P	SC,			_		
Other (Specify)	Other (Specify)						On Ice										
Li Other (Specify)			عل باست البراج السائد عب									-			$\smile$ $$		V V V

File : C:\HPCHEM\2\DATA\032501\03190102.D

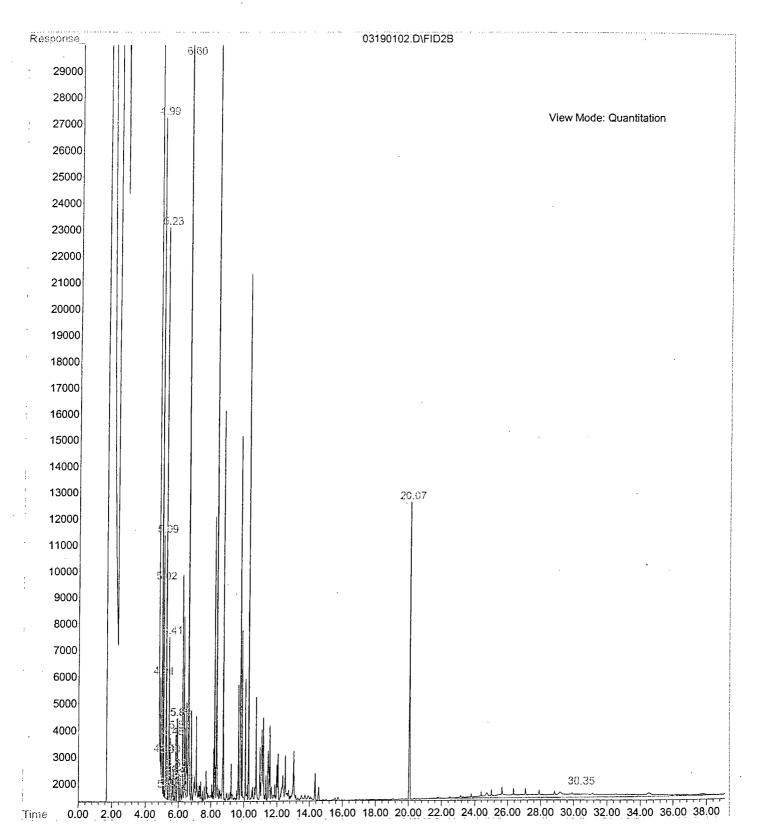
Operator :

Acquired : 25 Mar 2001 14:37 using AcqMethod NM1108FR.M

Instrument : FID-1

Sample Name: gas ccv gc4-30-4

Misc Info : Vial Number: 2



File : C:\HPCHEM\2\DATA\032501\03190103.D

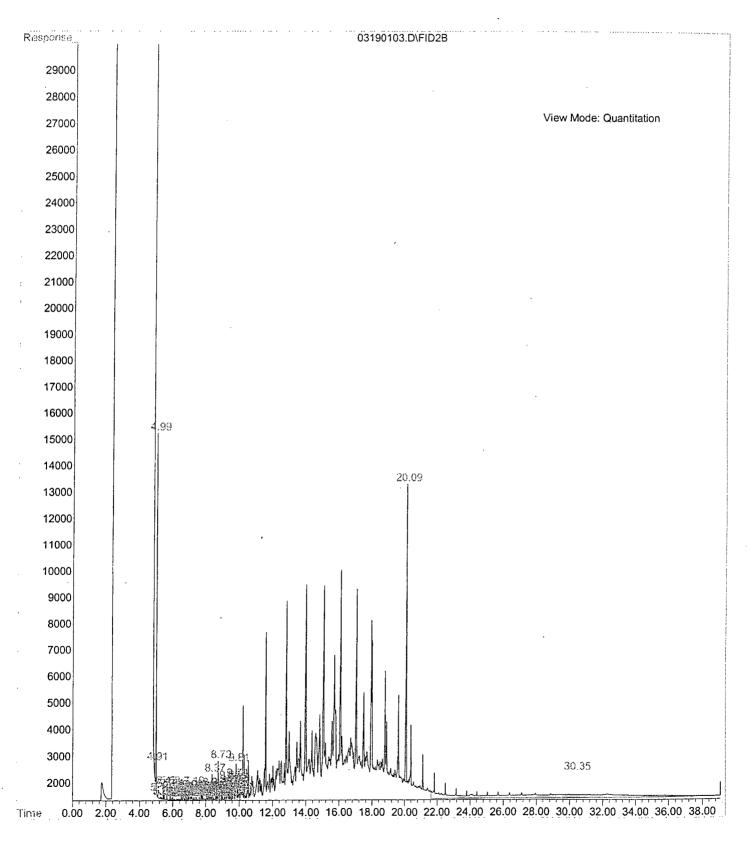
Operator

Acquired : 25 Mar 2001 15:28 using AcqMethod NM1108FR.M

Instrument : FID-1

Sample Name: dsl ccv gc4-30-6

Misc Info : Vial Number: 3



File : C:\HPCHEM\2\DATA\032501\03190131.D

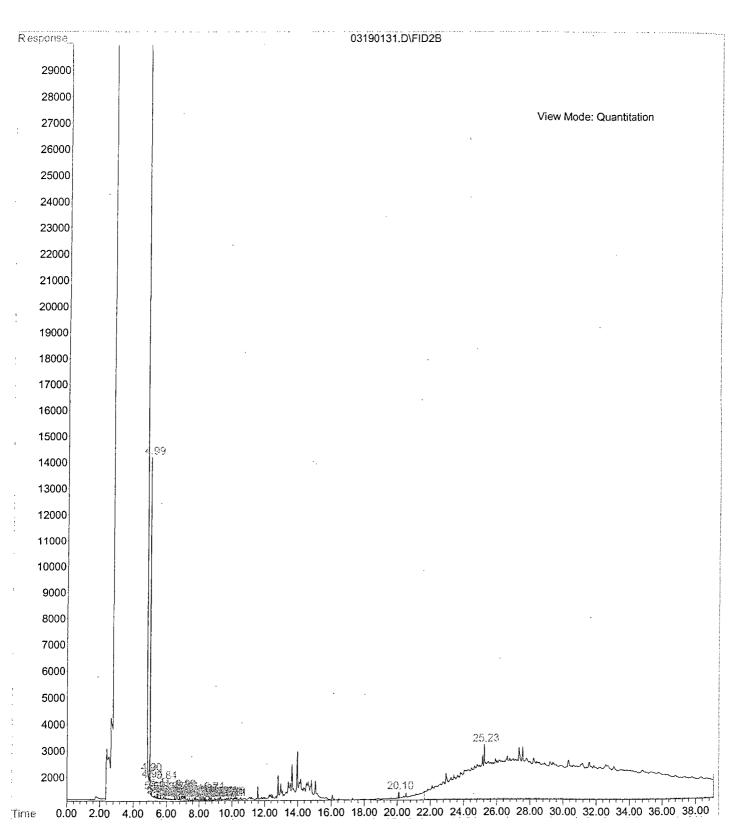
Operator

Acquired : 26 Mar 2001 16:52 using AcqMethod NM1108FR.M

Instrument : FID-1

Sample Name: 103064-01 50x

Misc Info : Vial Number: 30



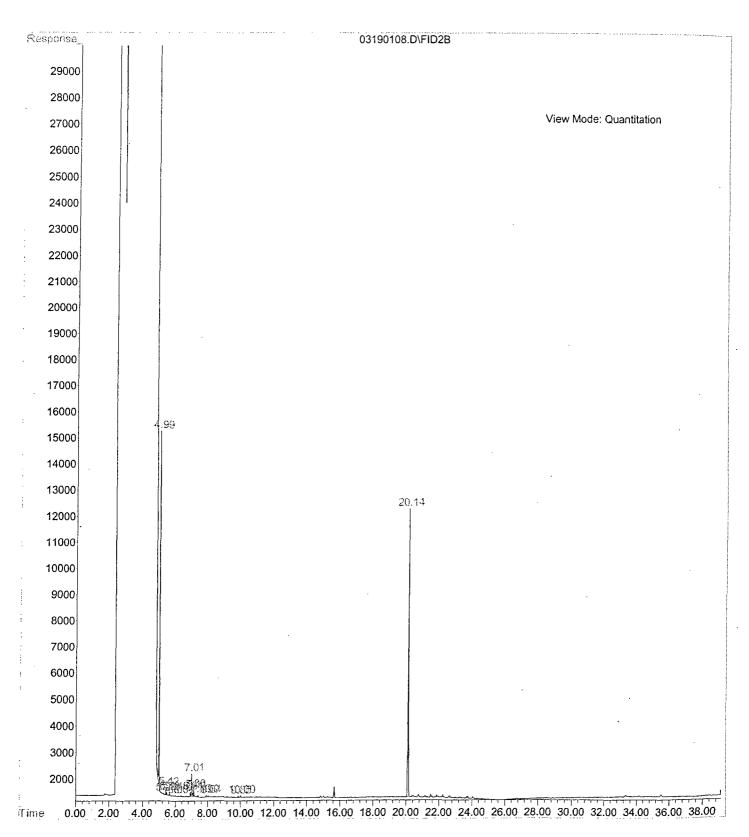
File : C:\HPCHEM\2\DATA\032501\03190108.D

Operator

Acquired : 25 Mar 2001 20:52 using AcqMethod NM1108FR.M

Instrument : FID-1
Sample Name: 103040-02

Misc Info : Vial Number: 8



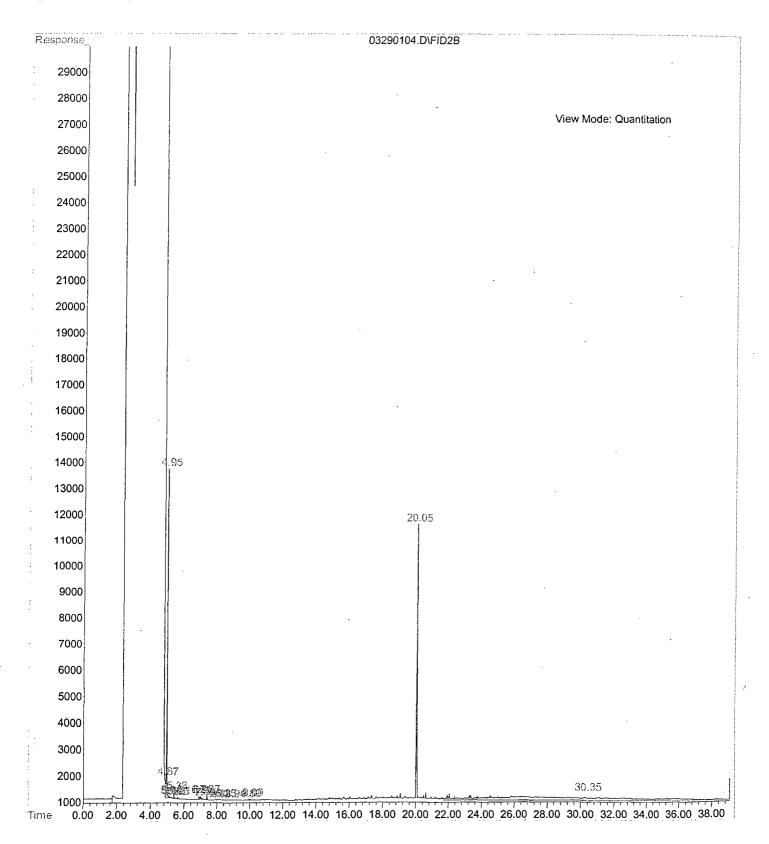
File : C:\HPCHEM\2\DATA\032901\03290104.D

Operator : CFF

Acquired : 29 Mar 2001 12:43 using AcqMethod NM1108FR.M

Instrument : FID-1
Sample Name: 103064-03

Misc Info : Vial Number: 4



File : C:\HPCHEM\2\DATA\032901\03290105.D

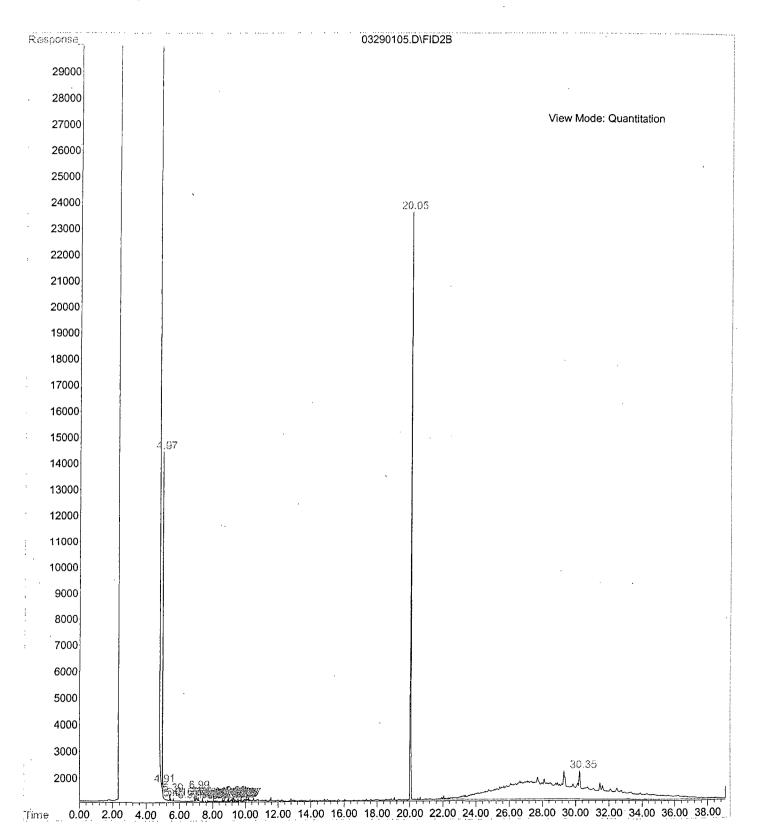
Operator : CFF

12:

Acquired : 29 Mar 2001 13:35 using AcqMethod NM1108FR.M

Instrument : FID-1
Sample Name: 103064-04rr

Misc Info : Vial Number: 5



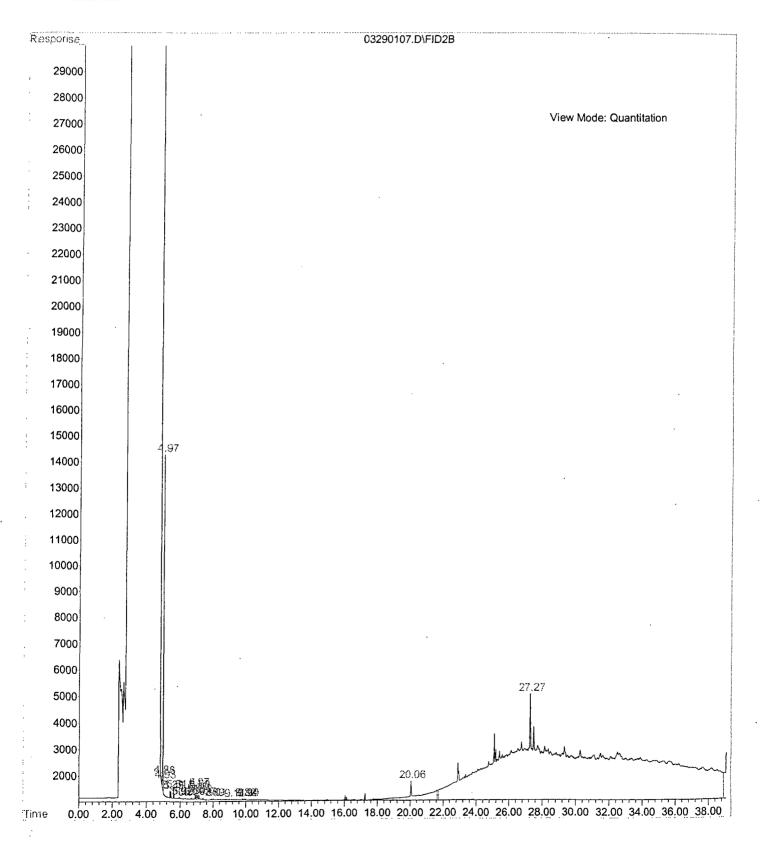
File : C:\HPCHEM\2\DATA\032901\03290107.D

Operator : CFF

Acquired : 29 Mar 2001 15:19 using AcqMethod NM1108FR.M

Instrument : FID-1
Sample Name: 103064-05\*20

Misc Info : Vial Number: 7



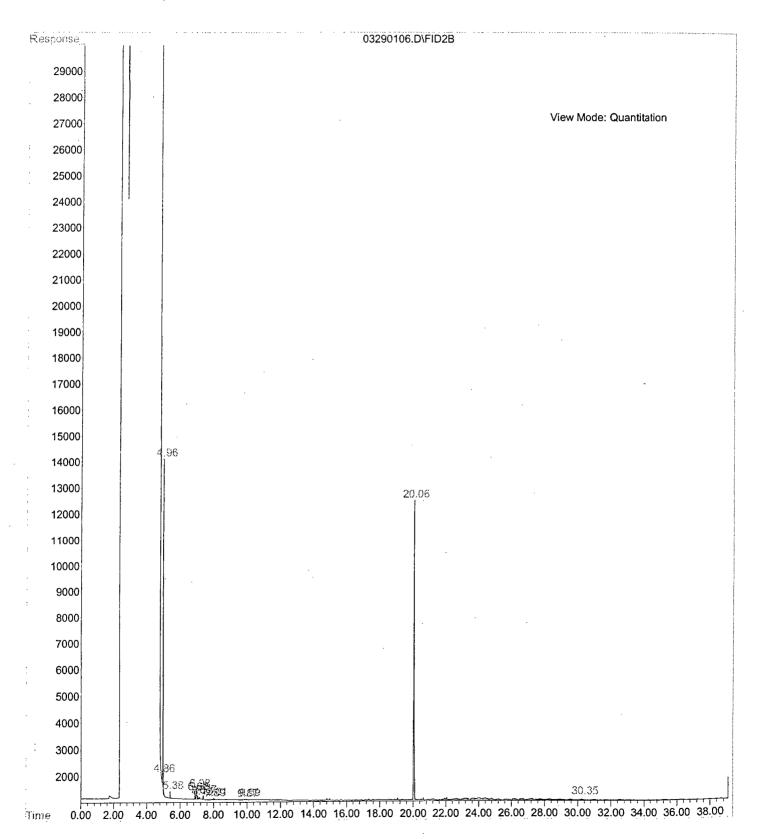
File : C:\HPCHEM\2\DATA\032901\03290106.D

Operator : CFF

Acquired : 29 Mar 2001 14:27 using AcqMethod NM1108FR.M

Instrument : FID-1
Sample Name: 103064-06rr

Misc Info : Vial Number: 6



District I - (505) 393-6161 P. O. Bax 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 " trict III - (505) 334-6178 Rio Brazos Road A...c, NM 87410

District IV - (505) 827-7131

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

Env. JN: 97057-040

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: S-21-01	4. Generator EPFS
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site LAT K-8
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduino Lash
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Horoico
7. Location of Material (Street Address or ULSTR)	Sac 16, TZGN, RG W Rea Arriba County, New
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommodated acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompacted acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Container à produced es eta Containe during cleanup et a live Lee	minated soil gonarated
	MAY 2001 OIL CON DIV DIST. 3
Estimated Volume cy Known Volume (to be entered by the open	erator at the end of the haul) ————— cy
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 5-2(-6)  EPHONE NO. 505-632-0615
TYPE OR PRINT NAMETEL	EFHONE NO.
(This space for State Use)	
	09/5/ DATE: \$ 25/0
APPROVED BY: Charle The TITLE: Delsty	046 12 1/2 07, DATE: 5/25/01

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:								
El Paso Field Services Co.	Envirotech Soil Remediation Facility								
614 Reilly Avenue	Landfarm #2								
Farmington, NM 87401	Hilltop, New Mexico								
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):								
Lateral K-8 Gas Pipeline	SW/4, Section 16, T26N, R6W, Rio Arriba Co., NM								
Attach list of originating sites as appropriate  4. Source and Description of Waste Hydrocarbon contaminated soils from pipeline leak.									
I,									
El Paso Field Services	Co. do bosobo contito that								
	overy Act (RCRA) and Environmental Protection Agency's July,								
	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 <b>NON-EXEMPT</b> waste only, the following document	mentation is attached (check appropriate items):								
MSDS Information RCRA Hazardous Waste Analys Chain of Custody	Other (description)								
Name (Original Signature):	Baye								
Title: Principal E	nvironmental Scientist								
Date: May 11, 20	001								

Dieuter 1 - (505) 393-6161 P. O. Box 1980 Hobbs NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 trict III - (505) 334-6178 7 Rio Brazos Road c, NM 87410 مدر District IV - (505) 827-7131

### New Mexico Energy Nunerals and Natural Resources Department

MAY 2001

RECEIVED

CALCON DAY

Qil Conservation Division
2040 South Pacheco Street

Santa Fe, New Mexico 87505 (505) 827-7131

RECEIVED

APR 3 0 2001

Environmental Bureau

Oil Conservation Division

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN:

97057-39

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator EPF5
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Bulling Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PSC
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Hospico
7. Location of Material (Street Address or ULSTR)	"H"E"I" Sec 26, T264, R9W
9. Circle One:	SAN Jean Comby DK
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompressed by the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	empanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Soil contaminated of used labe oil  Pupture:  TCLP whether systemated.  Estimated Volume	APR ZOULD STANDARD CY
Waste Management FacilityAuthorized Agent	EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Levy Tamy TITLE: Geolo	0C, (5) DATE: 4/27/1/1

TITLE: Environmental Geologest

District I - (505) 393-6161 P. O. Bex 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 97057-39

Artesia, NM 88210
`'-trict III - (505) 334-6178
Rio Brazos Road
دc, NM 87410
District IV - (505) 827-7131

APPROVED BY:

A COLOR COMPANIA PROGRAMMA PROGRAMMA COLOR								
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE							
1. RCRA Exempt: Non-Exempt:	4. Generator EPFS							
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site Bulling Plant							
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PSC							
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Howico							
7. Location of Material (Street Address or ULSTR)	"4" E" I" Sec 26, T26N, R9W							
9. Circle One:	JAN Juan Comby Duy.							
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by							
BRIEF DESCRIPTION OF MATERIAL:								
Soil contominated w/ used leabe oil	from compressor oil like							
Soil comboninated of assed labe oil from compression oil like rapture:  TCLP Matals withouted.  APR 2001								
	erator at the end of the haul) ————————————————————————————————————							
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELI	anager DATE: 4.27.01 EPHONE NO. 505-632-0615							
(This space for State Use)								

TITLE:

TITLE: Geologist DATE: 4

DATE:

### **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Ballard Plant	Units H and I, Section 26, T26N, R9W, San Juan Co., NM
•	
Attach list of originating sites as appropriate	
Source and Description of Waste	
Soil contaminated with used lube oil from compress	sor oil line rupture.
ı, David Bays	representative for:
(Print Name)	
El Paso Field Services	
according to the Resource Conservation and Recording to the Recording to t	very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
	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 docum	nentation is attached (check appropriate items):
MSDS Information	Other (description)
X RCRA Hazardous Waste Analys	
Chain of Custody	
$\cap$	
Name (Original Signature):	Bay
<del></del>	V
Title: Principal E	nvironmental Scientist
Date: 4-16-01	

# FRASTICAL SOLUTIONS FOR A BETT FOR TOMORROW

April 10, 2001

Mr. Robert Thompson Philips Service Corporation 4000 Monroe Road Farmington, NM 87401

Dear Mr. Thompson:

Enclosed are the analytical results for one soil sample collected from the location designated as "EPFS Ballard Oil Spill". One soil sample was collected by Philip Environmental designated personnel on 4/03/01, and received by the Envirotech laboratory on 4/05/01 for TCLP Total Metals.

The sample was documented on Envirotech Chain of Custody No. 9202 and assigned Laboratory No. 19521 (Ballard Station #1) for tracking purposes. The sample was analyzed on 4/09/01 using USEPA or equivalent methods.

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

Respectfully submitted, Envirotech, Inc.

Christine M. Walters

Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/Philip.wpd



# A METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Philip Environmental	Project #:	96036-000
Sample ID:	Ballard Station #1	Date Reported:	04-09-01
Laboratory Number:	19521	Date Sampled:	04-03-01
Chain of Custody:	9202	Date Received:	04-05-01
Sample Matrix:	TCLP Extract	Date Analyzed:	04-09-01
Preservative:	Cool	Date Extracted:	04-08-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.002	0.001	5.0
Barlum	0.420	0.001	100
Cadmium	0.007	0.001	1,0
Chromlum	ND	0.001	5.0
Lead	ND	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Sliver	ND in	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:

EPFS Ballard Oll Spill.

Analyst

(Mistering Wallers

RACTICAL 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:	04-09-TCM QA/QC	Date Reported:	04-09-01
Laboratory Number:	19521	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	04-09-01
Condition:	N/A	Date Extracted:	04-06-01

Blank & Duplicate Conc. (mg/L)	instrument Bjank	Method Biank	Detection Limit	Sample	Duplicate	% 0,105	Acceptance 0.107
Arsenic	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Barlum	ND	ND	0.001	0.420	0.422	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Spika		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/L)		Added	·	Sample	Recovery		Range

Conc. (mg/L)	bebbA		Sample	Recovery	Range
Arsenic	0.500	0.002	0.501	99.8%	80% - 120%
Barium	0.500	0.420	0.921	100.1%	80% - 120%
Cadmlum	0.500	0.007	0.506	99.8%	80% - 120%
Chromlum	0.500	ND	0.498	99.6%	80% - 120%
Lead	0.500	ND	0.499	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.498	99.6%	80% - 120%
Silver	0.500	ND	0.497	99.4%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1998

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 19521.

## **CHAIN OF CUSTODY RECORD**

09202

			•													
Client / Project Name			Project Location				ANALYSIS / PARAMETERS									
Philip Envi	von une	utel	EPFS Bollard Oil Spill				AIVALISIS / FARAMICI CRIS									
Sampler:			Client No.	Client No.			8 2				Remarks			:		
M. Have			960	- 28C	000	o, of	0-2									
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	No. of Containers	Tech									
Balland Status #1	4/3/01	0950	19521	2	o.11	1			1							
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				ENV	IRO	<b>TECH</b>	IIO	$\overline{C}$					Sample	Receipt	<u> </u>	
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						632-0615	-					Cool	- ice/Blue ic			

FILE No.040 04/27 '01 AM 07: : `:PHILI

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<u>Digital - (505) 393-6161</u> P. O. Box 1980 Hobbi, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pirtrict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

~\_c, NM 87410

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

MAY 0 2 2001

Submit Original Plus I Čopy to appropriate District Office

Form C-138

Originated 8/8/95

Environmental Bureau Oil Conservation Division

92132 Env. JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE					
1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator Halliburton Energ.					
Verbal Approval Received: Yes ☑ No ☐ Gameria F<.	5. Originating Site Wash bey - Spil					
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA					
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maroico.					
7. Location of Material (Street Address or ULSTR)	4109 E. MARD St.					
9. Circle One:	FARMington, NM 87401					
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accommodated Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommodated provided in the generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to not origin. No waste classified hazardous by					
BRIEF DESCRIPTION OF MATERIAL:  Upset of a Triction reduced (FR-26LC) into the West racins at the waste Bay Facility.  Upset of a Triction reduced (FR-26LC) into the West racins at the waste Bay Facility.  GEL/SURGE to END. LF#2  MAY 2001  APR 2001  APR 2001  APR 2001  APR 2001  ONLOON DAY  ON						
(This space for State Use)  APPROVED BY: Femy tout TITLE: Feology	DATE: 4/26/01					

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

District IV - (505) 827-7131

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN:

92132

REQUEST FOR APPROVAL TO ACCEPT	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: 4.24.01	4. Generator Halliburton Europ
Verbal Approval Received: Yes No I Received:	5. Originating Site Wash bay - Spil
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maroico.
7. Location of Material (Street Address or ULSTR)	4109 E. MAZW St.
9. Circle One:	FARMington, NUL 87401
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	companied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Upset of a friction reducen (FR  racks at the wask Boy Facility.  Line to go to Key Evergy D'spor  GEL/Sludge to END. LF#2  MSDS ATTACHED.  Estimated Volume Cy Known Volume (to be entered by the op  SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	APR 2001  ECEIVED  CLOON, DIV  DIST, 3  cy
APPROVED BY: TITLE: TITLE:	'/ /
ALLINATED DIV	DAIL.



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZDB ROAD AZTEC, NEW MEXICO 87410 [805] 334-6178 Fax [905]334-6170

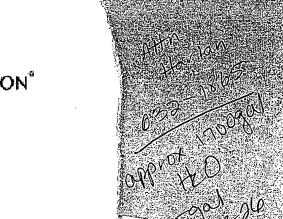
GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Hellebuten Energy Services	Envirotech Inc.
4109 & Main	Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico
4109 & Main Medica 87401	5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Wash Bay Same as Above	
work Pit	
Attach list of originating sites as appropriate  4. Source and Description of Waste	
Release of FR26 in to Pit	area .
	·
1, Doug Hooges	representative for:
Hallitundo Engre Darrian	do berahu essifu that
	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
EXEMPT oilfield waste NON-EXEN analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items).
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of N	Vaturally Occurring Radioactive Material (NORM) pursuant
	Vaturally Occurring Radioactive Material (NORM) pursuant
	Vaturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	Vaturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of No. 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):	Vaturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	Vaturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	Vaturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	Vaturally Occurring Radioactive Material (NORM) pursuant





1700 gal water 15 gal FR-266.C

#### MATERIAL SAFETY DATA SHEET

FR-26LC

Revision Date:

04/23/2001

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** 

FR-26LC

Synonyms:

None

Chemical Family:

Blend

Application:

Friction Reducer

#### Manufacturer/Supplier

Halliburton Energy Services

P.O. Box 1431

Duncan, Oklahoma 73536-0431

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

#### Prepared By

Product Stewardship

Telephone: 1-580-251-4335

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

ACGIH TLV-TWA OSHA PEL-TWA

Substance

Weight

Percent (%)

Hydrotreated light petroleum

30 - 60%

Not applicable

Not applicable

disțillate

64742-47-8

1 - 5%

Not applicable

Not applicable

Ethoxylated octylphenol

#### 3. HAZARDS IDENTIFICATION

#### Hazard Overview

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

#### 4. FIRST AID MEASURES

#### Inhalation

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

#### Skin

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

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

#### Ingestion

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

#### Notes to Physician

Not Applicable

#### FIRE FIGHTING MEASURES

Flash Point/Range (F):

Not Determined

Min: > 200

Flash Point/Range (C):

Not Determined

Min: > 93

Flash Point Method:

Not Determined

Autoignition Temperature (F):

Not Determined

Autoignition Temperature (C):

Not Determined

Flammability Limits in Air - Lower (%):

Not Determined

Flammability Limits in Air - Upper (%):

Not Determined

#### Fire Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

#### Special Exposure Hazards

Product is not expected to burn unless all the water is boiled away. Decomposition in fire may produce toxic gases. Use water spray to cool fire exposed surfaces.

#### Special Protective Equipment for Fire-Fighters

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

NFPA Ratings:

Health 1, Flammability 1, Reactivity 0

**HMIS Ratings:** 

Flammability 1, Reactivity 0, Health 1

#### **ACCIDENTAL RELEASE MEASURES**

#### Personal Precautionary Measures

Use appropriate protective equipment.

#### **Environmental Precautionary Measures**

Prevent from entering sewers, waterways or low areas.

#### Procedure for Cleaning/Absorption

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

#### 7. HANDLING AND STORAGE

#### Handling Precautions

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors.

#### Storage Information

Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use,

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering Controls**

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

#### **Respiratory Protection**

Organic vapor respirator.

#### **Hand Protection**

Impervious rubber gloves.

#### Skin Protection

Rubber apron.

#### Eye Protection

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

#### Other Precautions

Eyewash fountains and safety showers must be easily accessible.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Hazy light tan
Odor: Sweet hydrocarbon

pH: 8.7 Specific Gravity @ 20 C (Water=1): 1.09

Density @ 20 C (lbs./gallon): 1.09
9.08

Bulk Density @ 20 C (lbs/ft3):

Boiling Point/Range (F):

Boiling Point/Range (C):

Freezing Point/Range (F):

Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Not Determined

Not Determined

Percent Volatiles: 1.3

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Soluble

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

Solubility in Sea Water (g/100ml): Soluble

VOCs (lbs./gallon): Not Determined

Viscosity, Dynamic @ 20 C

(centipoise): Not Determined

Viscosity, Kinematic @ 20 C

(centistrokes): Not Determined

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

#### 10. STABILITY AND REACTIVITY

Stability Data:

Stable

Hazardous Polymerization:

Will Not Occur

#### Conditions to Avoid

None anticipated

#### Incompatibility (Materials to Avoid)

Strong oxidizers.

#### **Hazardous Decomposition Products**

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

#### **Additional Guidelines**

Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

#### Principle Route of Exposure

Eye or skin contact, inhalation.

#### Inhalation

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

#### Skin Contact

May cause moderate skin irritation.

#### **Eye Contact**

May cause moderate eye irritation.

#### Ingestion

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

#### **Aggravated Medical Conditions**

None known.

#### Chronic Effects/Carcinogenicity

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

#### Other Information

None known.

**Toxicity Tests** 

Oral Toxicity:

Not determined

Dermal Toxicity:

Not determined

Inhalation Toxicity:

Not determined

**Primary Irritation Effect:** 

Not determined

Carcinogenicity

Not determined

Genotoxicity:

Not determined

Reproductive/Developmental

Toxicity:

Not determined

#### 12. ECOLOGICAL INFORMATION

#### Mobility (Water/Soil/Air)

Not determined

#### Persistence/Degradability

Slowly biodegradable

#### Bio-accumulation

Not Determined

#### **Ecotoxicological Information**

Acute Fish Toxicity:

Acute Crustaceans Toxicity:

Acute Algae Toxicity:

TLM96: 100-1000 ppm (Lepomis macrochirus)

TLM96: 100-330 ppm (Crangon crangon)

Not determined

#### **Chemical Fate Information**

Not determined

#### Other Information

Not applicable

#### 13. DISPOSAL CONSIDERATIONS

#### **Disposal Method**

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

#### Contaminated Packaging

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

#### 14. TRANSPORT INFORMATION

#### **Land Transportation**

DOT

Not restricted

#### Canadian TDG

Not restricted

ADR

Not restricted

#### Air Transportation

ICAO/IATA

Not restricted

#### Sea Transportation

IMDG

Not restricted

#### Other Shipping Information

Labels:

None

#### 15. REGULATORY INFORMATION

#### **US Regulations**

#### **US TSCA Inventory**

All components listed on inventory.

#### **EPA SARA Title III Extremely Hazardous Substances**

Not applicable

#### EPA SARA (311,312) Hazard Class

Acute Health Hazard

#### EPA SARA (313) Chemicals

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

#### EPA CERCLA/Superfund Reportable Spill Quantity For This Product

Not applicable.

#### **EPA RCRA Hazardous Waste Classification**

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

#### California Proposition 65

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

#### MA Right-to-Know Law

Does not apply.

#### NJ Right-to-Know Law

Does not apply.

PA Right-to-Know Law Does not apply.

#### Canadian Regulations

Canadian DSL Inventory
All components listed on inventory.

WHMIS Hazard Class
D1B Toxic Materials

#### 16. OTHER INFORMATION

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

#### Additional Information

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

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

#### **Disclaimer Statement**

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

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

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

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 99043

Ti vict III - (505) 334-6178 Santa Fe.

Rio Brazos Road (5

District IV - (505) 827-7131

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 🔯	5. Originating Site HALL SHOP
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Waw Howico
7. Location of Material (Street Address or ULSTR)	1280 Troy King Rd. FARMINGTON, Dus Mapolco.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	mpanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
	whall stop.
TCLP Attached.  8910117273  MAY 2001  RECEIVED  ON CON. DIV  ON CON. DIV	APR 2001  OF THE STATE OF THE S
Estimated Volume	rator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm Ma  Weste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: <u>4-14-01</u> EPHONE NO. 505-632-0615
APPROVED BY: Martin 9th. TITLE: 2nvironum	16 115/20/01 DATE: 4/30/01

District I.- (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First

" trict III - (505) 334-6178

District IV - (505) 827-7131

Rio Brazos Road

APPROVED BY:

Artesia, NM 88210

c, NM 87410 مدر

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>99043</u>

REQUEST FOR APPROVAL TO ACCEP	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE					
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Compression					
Verbal Approval Received: Yes No 🔀	5. Originating Site เปลาม Stop					
2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2	6. Transporter Envirotech					
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Waw Haysico					
7. Location of Material (Street Address or ULSTR)	1280 Troy King Rd. FARMINGTON, Das Mapolco.					
9. <u>Circle One</u> :						
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be ac PROVE the material is not-hazardous and the Generator's certificat listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consign</li> </ul>	companied by necessary chemical analysis to ion of origin. No waste classified hazardous by					
BRIEF DESCRIPTION OF MATERIAL:	od for transport.					
Sludge from Floor grates in o	verhaul 5Hp.					
TCLP Attached.	APR 2001 RECEIVED OF CON. DIV DIST. 3					
Estimated Volume 5 drums cy Known Volume (to be entered by the o	perator at the end of the haul) ————————————————————————————————————					
SIGNATURE: Harlan M. Brown  TITLE: Landfarm  Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TE	Manager DATE: <u>4-16-01</u> LEPHONE NO. 505-632-0615					
APPROVED BY: Mule There TITLE: Definy	0 & 6 Inspector DATE: 4/30/01					

TITLE:

DATE:



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GIL COMBERVATION CIVISION AZTEO DISTRICT OFFICE 1008 RID BRAZOS ROAD AZTEC, NEW MERICO 87446 (800) 334-4176 FRE (403) U34-4176

GARY E. JOHNSON

JENNIFER A. BALLSBURY CABINET BECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:  Hanover Compression Co.  1280 Troy King Ld.  Form ing how, Numberico 87401  3. Originating Site (name):  Hanover Compresson co  1280 Troy King Rd.  Form ing how, Numberico  Attach list of originating along as appropriate  4. Source and Description of Waste  Sludge From Wash Bay Pit  Dirt. Oil, Lube Grosse	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR):					
1988, regulatory determination, the above described to EXEMPT ollfield waste NON-EXEM enalysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification					
and that nothing has been edded 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 Weste Analysis  Chain of Custody						
This waste is in compliance with Regulated Levels of Report 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature): Scale of Church  Title: Lanissi on Sheeislakist.  Dete: 4-16-2001	isturally Occurring Radioactive Material (NORM) pursuant					



#### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCLP

01-2400

Printed Name

5 Scott Oliver

Title / Agency

EMMISSIONS Spontalist

Moo en Compression

**Address** 

12 80 TROY King REP

Signature

Sollies

Date

4-16-01

## FOVIROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 28, 2000

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

Phone (505) 325-3220

Client No.: 99043 Job No.: 904302

Dear Mr. White,

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

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

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

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

Respectfully submitted, Envirotech, Inc.

Christine M. Walters

Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/burl.wpd

## ENVIROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Sample ID: Hanover Compression Composite from Floor Drains

Project #: Date Reported:

99043 01-24-00

Lab ID#: Sample Matrix: G719

Date Sampled:

01-21-00

Preservative:

Sludge Cool

Date Received: Date Analyzed:

01-21-00

Condition:

Cool and Intact

Chain of Custody:

01-24-00 7629

**Parameter** 

Result

**IGNITABILITY:** 

**Negative** 

**CORROSIVITY:** 

Negative

pH = 7.73

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

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

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

REACTIVITY:

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

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

Reference:

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

Comments:

Floor Drains - Shop.

L'hristini M Walless Review



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

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

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

Floor Drains - Shop.

Analyst P. Operen

Misting Walters
Review



### EPA METHOD 8040 PHENOLS

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

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

Floor Drains - Shop.

Analyst

Mistini M Walters



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

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

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

100%

References:

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

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

Note:

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

Comments:

Floor Drains - Shop.

Analyst P. Offeren

Mistin m Lasters
Review



## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

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

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

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Floor Drains - Shop.

Men P, Cycercan Analyst Christin y Walters Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:

QA/QC

Project #:

N/A

Sample ID:

Laboratory Blank

Date Reported:

01-26-00

Laboratory Number:

01-25-TCV

Date Reported:

Date Sampled:

U1-26-00

Sample Matrix:

Water

Date Received:

N/A N/A

Preservative:

N/A

Date Analyzed:

01-25-00

Condition:

N/A

Analysis Requested:

TCLP

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

ND - Parameter not detected at the stated detection limit.

Į	QA/Q	CA	cceptar	nce Criter	ia

**Parameter** 

Percent Recovery

Trifluorotoluene Bromofluorobenzene 100% 100%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample G719.

Analyst

Christin M Walters
Review

150



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-26-00
Laboratory Number:	01-24-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-25-00
Condition:	N/A	Date Extracted:	01-24-00
		Analysis Requested:	TCLP

	•	Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/ <b>L</b> )
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.2
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	NÐ	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	

Trifluorotoluene Bromofluorobenzene

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample G719.

Analyst Coleman

(Review M Latters

99%

98%



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-25-00
Condition:	N/A	Date Extracted:	01-24-00

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

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample G719.

Analyst

Review Mustine My Walte



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

Client:

Sample ID:

QA/QC

Project #:

N/A

Matrix Spike

Date Reported:

01-26-00

Laboratory Number:

G719

Date Sampled:

N/A

Sample Matrix:

**TCLP Extract TCLP** 

Date Received: Date Analyzed:

N/A 01-25-00

Analysis Requested: Condition:

N/A

Date Extracted:

01-24-00

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

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample G719.

Mustini m Walters



# EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-27-00
Laboratory Number:	01-27-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-27-00
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample G719.

aleen L. afenan Analyst

Misterie My Welters
Review



### **EPA METHOD 8040 PHENOLS Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-27-00
Laboratory Number:	01-24-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample G719.

Analyst

Wrist of Wall



### **EPA METHOD 8040 PHENOLS Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference

8040 Compounds

30.0%

Mistine m Lastes

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample G719.

Analyst



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-27-00
Laboratory Number:	01-27-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-27-00
		Analysis Paguastad:	TOLD

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

### 2-fluorobiphenyl

98%

References:

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

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

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

Note:

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

Comments:

QA/QC for sample G719.

Misting Walters
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-27-0 <b>0</b>
Laboratory Number:	01-24-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool and Intact	Date Analyzed:	01-27-00
•		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

98%

References:

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

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

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

Note:

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

Comments:

QA/QC for sample G719.

Dec L. ajeur

Christini M Walters
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-24-00
Condition:	N/A	Date Analyzed:	01-27-00
•		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

#### 8090 Compounds

30%

References:

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

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

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

Note:

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

Comments:

QA/QC for sample G719.

Allen L. Gencer

Mistine M Walter
Review

## **ENVIROTECH LABS**

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

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

Blank & Duplicate	i Instrument Blank	Method Blank		0.00	e Duplicat	e . % Diff.	Acceptance Range
Conc. (mg/L)  Arsenic	ND	ND	0.001	0.407	0.409	0.5%	0% - 30%
Barium	ND	ND	0.001	0.720	0.722	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.025	0.025	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.024	0.024	0.0%	0% - 30%
Lead	ND	ND	0.001	0.075	0.074	1.3%	0% - 30%
Mercury	ND	ND	0.001	ND	· ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

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

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,

Mist y Walter Beview

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample G719.

Allen h- Cpierre

V

## **CHAIN OF CUSTODY RECORD**

7629

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					(505)	632-0	0615						Cool -	· Ice/Blue le	се			

District 7 - (505) 393-6161 New Mexico Form C-138 P. O. Box 1980 Energy Minerals and Natural Resources Depart REGIIVED
Oil Conservation Division Hobbs, NM 88241-1980 Originated 8/8/95 District II - (505) 748-1283 Oil Conservation Division 811 S. First MAY 0 2 2001 2040 South Pacheco Street Submit Original Artesia, NM 88210 MAY 2001 trict III - (505) 334-6178 Plus I Copy Santa Fe, New Mexico 87505 Environmental Bureau RECEIVED to appropriate Rio Brazos Road (505) 827-7131 Oil Conservation Division 3 B c, NM 87410. District Office OIL CON. DW Env. JN: District IV - (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 1. RCRA Exempt: Non-Exempt: 🔀 EAFS 4. Generator 5. Originating Site Blonco Plant No 🗀 Verbal Approval Received: Yes [ Envirotech Soil Remedia. Facility Landfarm #2 6. Transporter Envirotech 2. Management Facility Destination 5796 US Highway 64 3. Address of Facility Operator Farmington, NM 87401 7. Location of Material (Street Address or ULSTR) SAN Juan Count 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: Sludge from oil/water superator, gonarded during of blows ADD & cattails in separator unit. 8021- BTEX & TCLP Metals ATTACHED cy Known Volume (to be entered by the operator at the end of the haul) -Estimated Volume -TITIF. Landfarm Manager DATE: 4.12.01 Waste Management FacilityAuthorized Agent 505-632-0615 Haglan M. Brown TYPE OR PRINT NAME: (This space for State Use) APPROVED BY:\_/

Diarrics ... (505) 393-6161 P. O. 80x 1980 Hobbs: NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 " trict III - (505) 334-6178 Rio Brazos Road

APPROVED BY:

مــنc, NM 87410

### New Mexico Energy Minerals and Natural Resources Department/PECHIVED Oil Conservation Division

2040 South Pacheco Street

MAY 0 2 2001

Environmental Bureau

DATE:

Submit Original Plus I Copy to appropriate District Office

Form C-138

Originated 8/8/95

Santa Fe, New Mexico 87505 (505) 827-7131

Oil Conservation Division 3 B

DECLIEST FOR ARREST TO ACCURA	
REQUEST FOR APPROVAL TO ACCEPT	Γ SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator EPFS
Verbal Approval Received: Yes 🔲 No 🔲	5. Originating Site Blonco Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Haxico.
7. Location of Material (Street Address or ULSTR)	NENW Socity, T294, RII W. SAN Juan County, NY
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigne BRIEF DESCRIPTION OF MATERIAL:  Studge from ail/water separate of blows and a cattails in separate 8021-BTEX & TCLP Matels AT.	or, goneraled during randor unt.
<b>2</b> 0.	APR 2001  PROCESS  ONLOWS  DIST. 8
Estimated Volume — 802 cy Known Volume (to be entered by the op	erator at the end of the haul) ————————————————————————————————————

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

District IV - (505) 827-7131

## New Mexico Energy Nunerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>97057-038</u>

REQUEST FOR APPROVAL TO ACCEPT	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE					
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator EPF5					
Verbal Approval Received: Yes No No	5. Originating Site Blouc o Plant					
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech					
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Haxico.					
7. Location of Material (Street Address or ULSTR)	NENW Socit, T294, RIW. SAN Juan County, NY					
9. Circle One:						
<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>						
BRIEF DESCRIPTION OF MATERIAL:						
Sludge from sil/water superator of blows ADD & cattails in superator 8021-BTEX & TCLP Matals ATT	APR 2001  APR 2001  APR 2001  DIST. 3  Cy					
SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 4.12.01  EPHONE NO. 505-632-0615					
(This space for State Use)						
APPROVED BY: Deny Temy TITLE: Geolo	DATE: 4/26/01					
APPROVED BY: TITLE:	DATE:					

### **CERTIFICATE OF WASTE STATUS**

1. Gener	ator Name and Address:	2. Destination Name:
E	l Paso Field Services Co.	Envirotech Soil Remediation Facility
6	14 Reilly Avenue	Landfarm #2
F	armington, NM 87401	Hilltop, New Mexico
3. Origina	ating Site (name):	Location of Waste(Street address &/or ULSTR):
Blanco Pla	nt	N/2 of N/2 of Section 14, T29N, R11W, San Juan Co., NM
	et of originating sites as appropriate e and Description of Waste	
	· · ·	
Soil conta	minated with contact wastewater.	
·	·	
<u> </u>		
	David Dava	
٠١,	David Bays (Print Name)	representative for:
	,	
according	to the Resource Conservation and Reco	CO. do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
	latory determination, the above described	
	ı	NON-EXEMPT oilfield waste which is non-hazardous by
EX	EMPT Oilfield waste X	characteristic analysis or by product identification
and that n	othing has been added to the exempt or	non-hazardous waste defined above.
For <b>NON</b> -	EXEMPT waste only, the following docum	nentation is attached (check appropriate items):
	MSDS Information	Other (description)
	X RCRA Hazardous Waste Analys	
	Chain of Custody	
	<u> </u>	
Name (	Original Signature):	Barr
,		
Title:	Principal E	nvironmental Scientist
Date:	4-16-01	
- Date:	7 10 01	



April 13, 2001

El Paso Field Services Attn: David Bays 614 Reilly Avenue

Farmington, New Mexico 87401

505-599-2256

Fax 505-599-2119

Re:

Results of water analysis, Blanco Plant - oil/water separator

Dear David:

Envirotech has completed analysis of a water sample collected on Wednesday, April 11, 2001 from the oil / water separator located in the south central portion of the Blanco Plant on County Road 4900. The water sample was delivered cool and intact to our laboratory. Collection and transportation were documented on Chain of Custody #9207.

The water sample was analyzed for BTEX constituents by USEPA Method 8021 and for TCLP Metals by USEPA Method 1311 (Toxicity Characteristic Leaching Procedure for trace metal analysis. Results of the analysis indicate that BTEX constituents are all none detect and TCLP Metals concentrations are all well below Maximum Allowable Concentrations detailed in Table 1, 40 CFR 261.24.

Please complete a Certificate of Waste Status for Oilfield Non-exempt Waste and forward it to our office. We will complete additional paperwork necessary to obtain NMOCD approval for remediation of sludge generated during cleanup of the oil/water separator.

If you have questions or comments regarding this project please feel free to contact us at 505-632-0615.

Sincerely,

Envirotech Inc.

Harlan M. Brown

Geologist / Hydrogeologist

New Mexico Certified Scientist #083



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	EPFS - Blanco Plant	Project #:	97057-038
Sample ID:	Grab	Date Reported:	04-12-01
Chain of Custody:	9207	Date Sampled:	04-11-01
Laboratory Number:	19541	Date Received:	04-11-01
Sample Matrix:	Water	Date Analyzed:	04-12-01
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact	•	

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	ND	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND .	1	0.2
o-Xylene	ND	1	0.1

Total BTEX ND

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

Oil / Water Separator.

Den L. Gleen

Mister Milasters



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-12-BTEX QA/QC	Date Reported:	04-12-01
Laboratory Number:	19533	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-12-01
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	i-CaliRF:	C-Cal RF: Accept: Rang	%Diff. ge 0 - 15%	Blank Gönc	Detect. Limit
Benzene	3.2255E-002	3.2333E-002	0.2%	ND	0.2
Toluene	4.0199E-002	4.0271E-002	0.2%	ND	0.2
Ethylbenzene	7.0232E-002	7.0380E-002	0.2%	ND	0.2
p,m-Xylene	6.3376E-002	6.3535E-002	0.3%	ND	0.2
o-Xylene	5.4448E-002	5.4541E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample _ ։ Dւ	ıplicate	%Diff.	Accept Range	Detect, Limit
Benzene	2.8	2.7	3.6%	0 - 30%	1.8
Toluene	21.8	21.4	1.8%	0 - 30%	1.7
Ethylbenzene	81.9	80.3	2.0%	0 - 30%	1.5
p,m-Xylene	466	457	1.9%	0 - 30%	2.2
o-Xylene	182	180	1.4%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample Amo	ount Spiked Spik	ked Sample	% Recovery	Accept Range
Benzene	2.8	50.0	52.8	100%	39 - 150
Toluene	21.8	50.0	71.6	100%	46 - 148
Ethylbenzene	81.9	50.0	131	99%	32 - 160
p,m-Xylene	466	100	561	99%	46 - 148
o-Xylene	182	50.0	230	99%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for samples 19533 - 19541.

Analyst

Misteri m Walley
Review



## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	EPFS - Blanco Plant	Project #:	97057-038
Sample ID:	Grab	Date Reported:	04-12-01
Laboratory Number:	19541	Date Sampled:	04-11-01
Chain of Custody:	9207	Date Received:	04-11-01
Sample Matrix:	Water	Date Analyzed:	04-12-01
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
1	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.001	0.001	5.0
Barium	0.061	0.001	100
Cadmium	800.0	0.001	1.0
Chromium	0.021	0.001	5.0
Lead	0.025	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	0.003	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:

Oil / Water Separator.

Analyst

Mister m Lasters Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	04-12-TCM QA/QC	Date Reported:	04-12-01
Laboratory Number:	19541	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	04-12-01
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument > Blank	Method Blank	Detectio Limit	n Sample	e Duplicate	% 0:105	Acceptance 0:107
Arsenic	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Barium	ND	ND	0.001	0.061	0.060	1.6%	0% - 30%
Cadmium	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.021	0.021	0.0%	0% - 30%
Lead	ND	ND	0.001	0.025	0.025	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%

Spike Conc.(mg/L)	Spike Added	Sample	e Spiked Sample		Acceptance Range
Arsenic	0.500	0.001	0.500	99.8%	80% - 120%
Barium	0.500	0.061	0.559	99.6%	80% - 120%
Cadmium	0.500	0.008	0.507	99.8%	80% - 120%
Chromium	0.500	0.021	0.520	99.8%	80% - 120%
Lead	0.500	0.025	0.525	100.0%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	0.003	0.502	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19541 - 19542.

Analyst

*FUIDD LUNC T* Review

Client / Project Name EPF5 - Blo	onco Ple	ont	Project Location	Project Location Oil/water Saparator			ANALYSIS / PARAMETERS									
Sampler: HARCHW W.	Brown		Client No.	57-0			No. of Containers	802( Bres	J. P.					Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		Cont	28	h 3			 				
Grab	4.11.01	9:60	19541	u	water		3									
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				ENV	IRO"	TE(	CH	In	C.				Sample	e Receipt		
					5796 U.S			A Section Contract	***					Y	N 1	N/A
					ington, N	Vew M	1exico		1				eived Intact	1	-	
			•		(505)	632-0	)615					Cool -	lce/Blue lo	;е		

District I - (505) 393-6161 P. G. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Professional Control of State of

District IV - (505) 827-7131

c, NM 87410 مدرد

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Env. JN:

99013

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

	A CREATE SHOULD BE A CREATE SHOU
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 4.12.01	4. Generator Smith Sonices
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site WASH Somp
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Serrano's
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Kinn Hupico
7. Location of Material (Street Address or ULSTR)	3650 Bloom Field N.H 87401
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted and accept one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification of testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Sludge generated during power wa tools. (No Souper Additives).	SH cleaning of down hole
	APR 2001  APR 20
Estimated Volume 17 665 cy Known Volume (to be entered by the open	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management Facility Authorized Agent Harlan M. Brown	505-632-0615
TYPE OR PRINT NAME: Harlan M. Brown TEL	EPHONE NO
(This space for State Use)	
APPROVED BY: Deny Jany TITLE: GOO!	09 (ST DATE: 4/17/0/ 105 18 T DATE: 4/17/1

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Smith SERVICES	Envirotech Soil Remediation Facility
3650 Bloomfield Hwy	Landarm #2
Farmington N.M. 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Same	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	5 1171
Mash water used for Clean	of converse lools.
Pressure water unly (NO Son	as a Additions &
1 (1000	76 05 100 100 )
- A - 2 - 3 - 1	
1, Spie & Sancher (Print Name)	representative for:
(Print Name)	do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
EXEMPT oilfield waste NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic
<del></del>	by product identification
· · · · · · · · · · · · · · · · · · ·	
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
This words is in compliance with Pagulated Layele of I	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
0 . 7 9	
Name (Original Signature):	
00	$\mathcal{O}$
1:+10: 1   10	<del>-</del>
Title: Illangacia	



### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCL	Ρ
Printed Nam	e Eppiet Sancher
Title / Agend	Smith Services
Address	3650 Bloomfield Hay
	Farmington, N.M. 87401
Signature	Espir I l
Date	4/10/01

District I = (505) 393-6161 P. O. 30x 1980 Holbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pi-trict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

APPROVED BY:

c, NM 87410 مدرد

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 97057-

	the first term of the second o		
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE			
1. RCRA Exempt: Non-Exempt: Donny Fount	4. Generator EPCS		
Verbal Approval Received: Yes 🗵 No 🔲 (9:32	5. Originating Site Honitor Wells		
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PSC		
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico		
7. Location of Material (Street Address or ULSTR)	Jaguary Com C# (& E#)		
9. <u>Circle One</u> :	Sec 6, TZ9A, R9W. SHA Juan Comby, NH.		
<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>			
BRIEF DESCRIPTION OF MATERIAL:  Drill cuttings from monitorwell construction.  APR 2001  APR 2001  OF RECEIVED  OF RECEIVED  OF RECEIVED			
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy			
SIGNATURE: Harlan M. Brown  TITLE: Landfarm Manager  DATE: 4.12.01  TYPE OR PRINT NAME: Harlan M. Brown  TELEPHONE NO. 505-632-0615			
(This space for State Use)  APPROVED BY: Derry Temf TITLE: 6-60/09	9/5/ DATE: 4/17/0/		

Verbel. Denne Fonst 4. 12.01

### **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:		
El Paso Field Services Co.	Envirotech Soil Remediation Facility		
614 Reilly Avenue	Landfarm #2		
Farmington, NM 87401	Hilltop, New Mexico		
3. Originating Site (name): Jaquez Com C#1 and I	#1 Location of Waste(Street address &/or ULSTR):T29N,R9W, Sec. 6		
Attach list of originating sites as appropriate			
4. Source and Description of Waste Contaminated			
3 drums of Drill	Cuttings		
ı, <u>Scott Pope</u> (Print Name)	representative for:		
(Print Name)			
El Paso Field Services	Co. do hereby certify that,		
	very Act (RCRA) and Environmental Protection Agency's July,		
1988 regulatory determination, the above describe	WASTO IS. (Crisck appropriate classification)		
V EVENEDT Olifield weeks NOR	J EYEMDT oilfield weste which is non-hazardous hy		
X EXEMPT Oilfield waste   NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification			
and that multiple has been added to the exempt on	nes howardous waste defined above		
and that nothing has been added to the exempt or non-hazardous waste defined above.			
For NON-EXEMPT waste only, the following docur	mentation is attached (check appropriate items).		
MSDS Information Other (description)  RCRA Hazardous Waste Analysis			
Chain of Custody	alysis		
$\mathcal{L} = \mathcal{L}$			
Name (Original Signature):	./ 2		
Title: Senior Env	/ironmental Scientist		
Time. Combi Environmental Coloniac			
Date: 4/12/01			

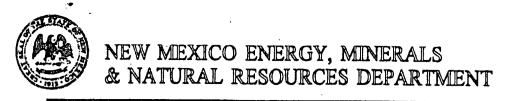
District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
P'-trict III - (505) 334-6178
Rio Brazos Road
L.c., NM 87410
District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

strict IV - (505) 827-7131	Env. JN: <u>97070</u>	
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: U サ. 4.4.01	4. Generator	
Verbal Approval Received: Yes ⊠ No ☐	5. Originating Site Hew Som € #17	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Key Energy	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State N ew Mexico	
7. Location of Material (Street Address or ULSTR)	Sec 20, TZGN, RBW SAN Ju- County NY	
9. Circle One:		
<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>		
BRIEF DESCRIPTION OF MATERIAL:		
Down hole drilling mudin a free (Must be Stabilized)  Estimated Volume 80-100 bb cy Known Volume (to be entered by the open	APR 2001 RECEIVED ON DAY  Perator at the end of the haul) — cy	
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELI	DATE: 64.05.01  EPHONE NO.	
APPROVED BY: Deny J. Teny TITLE: G-60/0	PATE: 4/05/0/	



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:  CONOCO 3315 Bloom Fraio Huy	2. Destination Name: Envirotech Soil Remediation Facility	
Fairmaylow, N.M. 8740/	Landarm #2 Hilltop, New Mexico	
3. Originating Site (name): Well SITE  NEWSOME 17  726N R 8W SEC 20	Location of the Waste (Street address &/or ULSTR):  ON LOCATION ERIN STAY COM /  T25N R 7W SEC 16	
Attach list of originating sites as appropriate	, 25,0 10 7 10 000 75	
4. Source and Description of Waste  Old Dizumng mus	·	
1, ROBERT G.	MORRIS representative for:	
I, KOBERT G (Print Name) CONOCO	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-EXEM analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification	
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.	
For NON-EXEMPT waste the following documentation is attached (check appropriate items):  MSDS Information Other (description): RCRA Hazardous Waste Analysis Chain of Custody		
to 20 NMAC 3.1 subpart 1403.C and D	Naturally Occurring Radioactive Material (NORM) pursuant	
Name (Original Signature): Lolud X. N  Title: ROJECT LEADER  Date: 4-4-0/	Tons	
Title: PROJECT LEADER		
Date: 4-4-0/		

Dissect 1 - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Profit III - (505) 334-6178
Rio Brazos Road
Lic, NM 87410
District IV - (505) 827-7131

### New Mexico

## Energy Minerals and Natural Resources Department 7001 Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Environmental Bureau
Oil Conservation Division

RECEIVED

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

istrict TV - (505) 827-7131	Env. JN: 92132-16
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: Non-Exempt:	4. Generator Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site H.P. フレック せいてん
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Environteal
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Hopico
7. Location of Material (Street Address or ULSTR)	MP. 71.5; Hw764 SHD Fran County DU.
9. Circle One:	J
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accommodately one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommodately provided in the control of the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
ABSorbent natural (Stub) From contransmission fluids at an equipm	loan up of angine &
APR 2001  APR 2001  ON CON. DIV  ON CON. DIV	
SIGNATURE: Harlan M. Brown	505-632-0615
TYPE OR PRINT NAME: Hallan H. Brown TEL	EPHONE NO.
(This space for State Use)	
APPROVED BY: Denny tout TITLE: Geclas	DATE: 4/03/01
APPROVED BY: Martin Jih - TITLE: Envivonm	stal bedough DATE: 4-5-01

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

District IV - (505) 827-7131

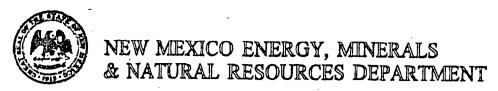
### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 92132-16

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Services	
Verbal Approval Received: Yes No 🔀	5. Originating Site H.P. 71.5 HwTら	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduirated	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Den Hapico	
7. Location of Material (Street Address or ULSTR)	MP. 71.5; Hw7 64 SAN Tran County DU.	
9. Circle One:	J	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by	
Estimated Volume    Signature   Store   Signature   Signature	orator at the end of the haul) cy anager DATE: 3.28.01	
TYPE OR PRINT NAME: Harlan M. Brown TELI	EPHONE NO	
APPROVED BY: Demy Fount TITLE: Geolo	915T DATE: 4/03/01	
APPROVED BY: TITLE:	DATE:	



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO B7410 (505) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

· · · · · · · · · · · · · · · · · · ·	
1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services	Envirotech Soil Remediation Facility
4109 MAIN STREET	Landarm #2
Farmington, NM 87402	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
HIGHWAY WILL POST 8371.5	
Attach list of originating sites as appropriate	
4. Source and Description of Waste Lube Oil from Equipment failure	or Hickman 104.
Lunc on arom equipment sailure	on til Standy of
(1-drum)	
Δ	
. Kellie Meiton	representative for:
(Print Name)	
Hallibutton Energy Services	do hereby certify that,
1988, regulatory determination, the above described was	y Act (RCRA) and Environmental Protection Agency's July,
1000, regulatory determination, and energy desermes .	· · · · · · · · · · · · · · · · · · ·
EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentar	
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
Chain of Custody	knowledge of process
	A CONTRACTOR OF THE CONTRACTOR
	aturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•
1 20 10 -	. /
Name (Original Signature):	Hon_
	$\mathcal{I}_{1}$ . $\Omega$
Title: HE beanned Th	ofes cond
0/2/	
Date: SISISIO	

District I - (505) 393-6161 P. O. 30 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

~\_c, NM 87410

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus I Copy to appropriate District Office

Env. JN: <u>Glo(5-001</u>

HEQUEST FUN APPROVAL TO ACCEPT	SOLID WAS IE
1. RCRA Exempt: Non-Exempt:	4. Generator Willerals
Verbal Approval Received: Yes No No	5. Originating Site Horsestoe Gally
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Den Marcico
7. Location of Material (Street Address or ULSTR)	SWN Juan County, NIM
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept approval to accept non-exempt wastes must be accept non-exempt wastes will be accept non-exempt will b</li></ul>	companied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Clean up of crude oil spills &	leades, et a toute Ballacy
	MAR 2001 RECEIVED DIST. 3
Estimated Volume cy Known Volume (to be entered by the op	5
SIGNATURE: Harlan M. Brown  TITLE: Landfarm 1  Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Manager DATE: 3.27.01  EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: TITLE: Geological Control of the Control	913 DATE: 3/27/01
APPROVED BY: ////// TITLE:	האדבי.

1. Generator Name and Address:



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE .1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-8178 Fax (506)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

2. Destination Name:

Playa Noutean En engy & Miserals	Envirotech Soil Remediation Facility
Playa Noutean En engy & Miserals 650 N. Shin Houston Parkway E, Suite Soo	Landarm #2
HOUSTON, TERRS 77060	Hillrop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Horsestoe Gallep Unit D Batt	
SW NW, Sec 34, T31N R16	ω ·
Attach list of originating sites as appropriete	
4. Source and Description of Waste	
Clean up of crude oil	spills & Leales
	·
•	
I, KENNETH W. JACKSON	representative for:
(Print Name) PLAYA MINERALS & ENERGY TNC	do hereby certify that,
according to the Resource Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	were tree at a significant and a significant
	IPT oilfield waste which is non-hazardous by characteristic by product identification
-	by product solitation
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
T MAI EVERIOT to the following designation	sian la neconhad (ahadi annyantiata itama):
For NON-EXEMPT waste the following documents MSDS information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
The second secon	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	determine transmiss and the first possession
(0 20 Miles 3.1 Support 1.155.6 a.i.e.s.	
1 10 is 1 1	
Name (Original Signature): Kenther July	
· / · /	· · · · · · · · · · · · · · · · · · ·
Title: REGULATORY COMPLIANCE	
Title: REGULATORY COMPLIANCE	
17	

# UTE MOUNTAIN UTE TRIBE



P.O. Box 248 Towaoc, Colorado 81334-0248 (970) 565-3751

March 21, 2001

Kenneth W. Jackson Regulatory Compliance Playa Minerals & Energy 650 N. Sam Houston Parkway E., Suite 500 Houston, TX 77060

Re:

Notification of Transportation of Petroleum Contaminated Soil, exempt

Horseshoe Gallup Unit Well #282 and Tank Battery D

Dear Mr. Jackson:

Thank you for notifying the Ute Mountain Ute Environmental Programs Department of the transportation of oil field waste from the above referenced sites to an approved disposal site in New Mexico. It is our understanding that petroleum contaminated soil will be removed to the Envirotech disposal facility in Farmington, New Mexico.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and federal laws. The Ute Mountain Ute Tribe accepts no liability associated with the disposal of this waste.

Sincerely,

Cindy Crist, Director

Environmental Programs Department

Ute Mountain Ute Tribe

Cc: Harlan Brown, Envirotech

Gordon Hammond, UMU Energy Department

Helen Mary Johnson, BLM



## THE NAVAJO NATION

Navajo Nation Environmental Protection Agency
National Pollutant Discharge Elimination System Program
P.O. Box 339 Window Rock, Arizona 86515
Telephone # (520) 871-7186 Telefax # (520) 871-7599

KELSEY A. BEGAY PRESIDENT

TAYLOR MCKENZIE, M.D.
VICE PRESIDENT

Docket No. NNCWA-901-FY01-03

January 30, 2001

John Ehrman, President Playa Mineral and Energy Corporation 650 N. Sam Houston Parkway East, Suite 500 Houston, TX 77060

Paul Zecchi, President Central Resources, Inc. 1775 Sherman Street - Suite 2600 Denver, CO 80203

RE: Notice of Unpermitted Discharge/Order to Remediate

Messrs. Ehrman and Zecchi:

This is a notice that Playa Mineral and Energy Corporation (Playa) is not permitted to discharge into any waters of the Navajo Nation. Navajo EPA is aware of oil and saltwater released from a pipeline into an unnamed drainage within the Horseshoe Gallup Unit located northeast of Shiprock, NM. Although the release point appears to be on Ute Mountain tribal land, the drainage that collected the released oil and saltwater is on Navajo Nation land. Playa is operating on a mineral lease currently held by Central Resources, Inc.

On January 5, 2001, Navajo EPA was informed of the release of oil and saltwater. On January 12, 2001, Navajo EPA staff and two Navajo Nation Resource Enforcement Rangers met with Larry Bingham of Playa at the release site. According to Mr. Bingham, a pipeline froze-up causing a break on the line approximately 600 feet southwest of Well # 282 (SW/NW, SEC 28, T31N, R16W). This resulted in a release of 20 barrels of oil and 10 barrels of saltwater directly into the unnamed drainage. The released oil and saltwater flowed approximately 425 feet in the drainage to and over a cliff wall, and flowed another 411 feet in an unnamed wash at the bottom of the cliff. Playa field employees covered the length of the spill area with soil. The disturbed area at the break site is approximately 2500 square feet. Patches of oil stains were seen throughout the spill flow path (in the drainage and on rock surfaces). The unnamed wash is a tributary of the Sunshine Spring Draw which is a tributary of the San Juan River. Playa personnel reported this incident to the Bureau of Land Management on December 12, 2000.

The unnamed drainage receiving the released oil and saltwater is considered a water of the Navajo Nation. Section 301 of the Navajo Nation Clean Water Act (NNCWA) prohibits, without a permit, any person from discharging a pollutant into any waters of the Navajo Nation (including dry washes). Section 901 of the NNCWA authorizes the Navajo EPA Director to require persons to furnish information necessary to carry out the objectives of the Act. Section 902 of the NNCWA authorizes the Navajo EPA Director to issue an order to achieve compliance with the Act, the regulations promulgated under the Act, or permits, orders, plans, programs or fees issued or developed pursuant to this Act. The Navajo EPA is recommending that Playa cleanup the oil and salt water spill in the following manner:

- 1. Remove all contaminated soil in the drainage and unnamed wash.
- 2. Remove, to the extent possible, the oil stain from the canyon wall.
- 3. Transport and dispose of all removed contaminated soil to a certified off-site landfill or landfarm facility.
- 4. Submit the following information to Navajo EPA:
  - a. Describe all actions taken to cleanup the site.
  - b. Describe all actions taken to prevent future spills of this nature.
  - c. Date and time the contaminated soil and oil stain were removed.
  - d. Date and time the contaminated soil was placed at a certified landfill or landfarm facility.
  - e. The name, address, phone number of the certified landfill or landfarm facilities.
  - f. Amount of soil contaminated by the spill.
  - g. Location Description: description of location of the removed contaminated soil.
  - h. Describe the contaminated soil's potential impacts on aquatic and/or human health, if any.

Please be advised that you have 15 days, upon receipt of this letter, to complete all cleanup activities and provide Navajo EPA with the information requested above. A follow-up inspection will be conducted to ensure you are complying the cleanup conditions of this letter. All information requested by this letter must be sent to the following address:

Navajo EPA - WQ/NNPDES Program P.O. Box 339 Window Rock, AZ 86515 ATTN: Patrick Antonio

If you have any questions regarding this matter, please contact Patrick Antonio at (520) 871-7185.

Letter to Playa Mineral and Energy Corp. January 30, 2001 Page 3

Sincerely

Derrith Watchman Moore, Executive Director Navajo Nation Environmental Protection Agency

xc: Jeremy Johnstone, CWA Compliance Office, US EPA-Region 9
Linda Taylor, Realty Specialist, BIA Realty Office
Akhtar Zaman, Director, Navajo Minerals Department
nnepa/npdes files



# ${f PLAYA}$ minerals & energy, inc.

March 16, 2001

Bureau of Land Management San Juan Field Office Attn: Dan Rabinowitz 15 Burnett Court Durango, Colorado 81301

Re: Clean Up Plan;

Horseshoe Gallup Unit #282 SW/NW Sec. 28 T31N, 16W and

ኒኒ

Horseshoe Gallup Unit D Battery SW/NW Sec. 34 T31N, 16W

San Juan County New Mexico

### Dear Mr. Rabinowitz:

Central Resources, Inc. c/o Playa Minerals & Energy, Inc. (Central/Playa) hereby submits its Plan to clean spills at the two above referenced locations. We propose to do the following:

- 1. Remove all contaminated soil from the location.
- 2. Replace the soil with fresh clean soil.
- 3. The removed soil will be placed in an offsite certified land farm.
- 4. The fresh soil will come from an offsite location.
- 5. Junipers in the area of the spill at HGU #282 will be power washed to remove any paraffin accumulations.
- 6. After the clean up an environmental scientist will survey the two spill areas and advise if any further steps are needed.
- 7. Central/Playa will provide the Ute Mountain Ute Energy Office, the Environmental Protection Agency Office at Towoac, Colorado, and the San Juan Field Office of the Bureau of Land Management with copies of the clean up report for both locations. The clean up report will include:
  - a. the date when the contaminated soil was removed,
  - b. the amount of soil removed
  - c. the date when the contaminated soil was placed in the certified landfarm

- d. the name, address, and telephone number of the landfarm facilities
- e. the source of the clean fresh soil and the date it was placed at the locations.

At present Central/Playa has contracted with Envirotech, Inc. of Farmington, New Mexico to haul away the contaminated soil and place it in their landfarm facility. Any clean fresh soil brought in will be obtained from Envirotech.

In addition we have already begun excavation to remove the contaminated soil. Due to some confusion, resulting from the all parties involved with the Horseshoe Gallup Unit, we overlooked filing the clean up plan with you before commencing clean up activities at HGU #282. We apologize for this oversight and have taken steps to avoid such happening again.

Thank you for assistance and attention to this matter. If you have any questions or need any additional information please call us.

Yours truly,

Central Resources, Inc.

c/o Playa Minerals & Energy, Inc.

Kenneth W. Jackson Regulatory Compliance ኒ<sup>ኒ</sup>

¥ P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 D'-ulct III - (505) 334-6178 Rio Brazos Road ر. NM 87410

District IY - (505) 827-7131 Mary the company of the control of

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

Submit Original Plus I Čopy to appropriate District Office

Env. JN: 0(007-001

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
1. RCRA Exempt: Non-Exempt: Down of Fourt	Felonal ed Environmen  4. Generator I what.			
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Turks			
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eavinotech			
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico			
7. Location of Material (Street Address or ULSTR)	5928 U.S. Har 64. Formington, NW 87401			
9. <u>Circle One</u> :	3-4			
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>				
BRIEF DESCRIPTION OF MATERIAL:	<del></del>			
Sludge generated during clooning to production equipment including touk.  Norms Awarrsis 4-77 actted.  Estimated Volume — Cy Known Volume (to be entered by the op	MAR 2001 PRECEIVED OIL OON. DN DNOT. S  PRECEIVED OIL OON. DN DNOT. S  Cy			
Waste Management FacilityAuthorized Agent Harrian M. Brown	EPHONE NO. 505-632-0615			
APPROVED BY: APPRO	915 T DATE: 3/27/01			



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

1. Generator Name and Address:

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

Elevated Existion marked Associates, Inc

BEDFORD Square, 1314 Barbard Awarence.

Baltimore, Maryland 21208

2. Destination Name:

INFRD	Enviroled Soll Remediation Facility
5928 45 Hwy 64	Landarm #2
Farmington, NAL 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Infab SHOP & Yard.	
Attach list of originating sites as appropriate  4. Source and Description of Waste	
St. A	Combine in 11G 60
stage general during	cleaning & referbishing oilfield ncluding; touks, delugs, saparators
production agreepment i	n cluding; touks, delugs, saparators
·	
·	]
1 Lunius IN Ro	م مر ما representative for:
(Print Name)	- representative for
Federated ENVironmental As	sociales Inc do hereby certify that,
according to the Resource Conservation and Recove	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
✓ EXEMPT oilfield waste NON-EXEM	/IPT oilfield waste which is non-hazardous by characteristic
	by product identification
and that nothing has been added to the exempt or no	n-exempt non-nazardous waste defined above.
For NON-EXEMPT waste the following documents  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	X Other (description): KH and ladge of Proces
This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant .
Name (Original Signature): 4	our -
Title: Goologist - Project Hou	ger
Date: 2.22.01	

Drums from NEAB YARD

Sludge generated during cleaning & refurbishing oil field

Production equipment welleding tanks, dehydrators, separators

and other production equipment.

### NORM SURVEY DATA SHEET

Facility/location: Pesco P(Ant	Date: 2-22-01
Meter Model: DOSIMETER 3007A Serial No	o: 9808-238
Detector Model: DOSIMETER 3012 Serial No	201-887-7100
Calibration Date: 4-5-99	
Battery Check: (X)	
Background Radiation Level: 105 mR/hr	
Description of material surveyed:  Solid Waste Th 5	5 gAl. drun container
_	
Exempt WASTE Item/Materia	al Surveyed:
Waste Material: <u>55</u> approx. gals  Equipment:  Manufacturer:	mR/hr:
Serial No:	
Description:	
Job No:	
Comments:	
urvey Conducted by:  (Print Name)  (Signature)	
~	

Dierrica - (505) 393-6161 P. C. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pi-trict III - (505) 334-6178
PRIO Brazos Road .c. NM 87410

(This space for State Use)

APPROVED BY

APPROVED BY:

New Mexico

Energy-Minerals and Natural Resources Department

2040 South Pacheco Street Santa Fe, New Mexico 87505

(505) 827-7131

Form C-13 Originated 8/8/9

> Submit Origin Plus I Cop to appropria District Offi

Istrict IV - (505) 827-7131 OF CON 3	Env. JN: <u>01007-001</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator
Verbal Approval Received: Yes No No	5. Originating Site Tatab
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Pavirolech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Mesoico
7. Location of Material (Street Address or ULSTR)	5928 US. Hwy64 Farmington Du,
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompact the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:  Oily dint from cleanup of total materials Amanysis - Atto	15 (0 C) (0 Z) (0 Z)
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) ————— cy
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELI	DATE: 3.24.0(  EPHONE NO. 505-632-0615

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

District IV - (505) 827-7131

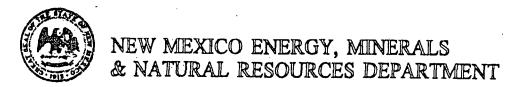
# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 01007-001

	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1.	RCRA Exempt: Non-Exempt: 🖂	,	4. Generator
	Verbal Approval Received: Yes 🔲 🕺	4o 🔀	5. Originating Site INFAS
2.	Management Facility Destination Envirotech Facility	Soil Remedia. Landfarm #2	6. Transporter Envirotech
3.	Address of Facility Operator 5796 US High Farmington,		8. State Wan Maxico
7.	Location of Material (Street Address or ULSTR)		592B US HWY GO Farming on DM 87401
9. !	Circle One:		
	A. All requests for approval to accept oilfield exen Generator; one certificate per job.  3. All requests for approval to accept non-exemp PROVE the material is not-hazardous and the clisting or testing will be approved.  Il transporters must certify the wastes delivered are	t wastes must be acco Generator's certification	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIE	Oily dirt From cutter Area.  RCRA RCI Total Watels Atta	-	MAR 2001  RECEIVED  ON CON. DIV  DIST. 9
Estim	ated Volume — Z6 cy Known Volume (	to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
	Waste Management Facility Authorized Agent Harlan M. Brown	TITLE: Landfarm Ma	DATE: 3.26.0( EPHONE NO. 505-632-0615
APF	PROVED BY:	TITLE: (JEO/O	5/3/ DATE: 3/27/0/



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
FEDERATED ENVIRONMENTED SOLVICOS	
Bedford Square, 1314 Bedford Am	1 .
BAITIMORE, Glaryland 21208	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
5928 US HWY 64	
Farmington NW 87401	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Oily Soil a Cutting &	Burning area, Hill Top GAWG
Area.	
.1	
Federated Environmental	representative for:
(Print Name)	171500
according to the Resource Conservation and Recove	/ TAFAB do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached Ishack appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	ALODES
	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	•
Name (Original Signature): Harby Substitute Grand Victorian / Project Victorian	y Course
Title: GEOLOGIST / PROject Ulde	s heath
Date: 3.26.01	



### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Sample ID: Federated Environmental

Project #:

01007-001

Lab ID#:

Hilltop Stains 19315

Date Reported: Date Sampled:

03-01-01

Sample Matrix:

Soil

Date Received:

02-27-01 02-27-01

Preservative:

Cool

Date Analyzed:

Condition:

Cool and Intact

Chain of Custody:

02-28-01 8529

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 6.67

**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:

INFAB.



#### TRACE METAL ANALYSIS

Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Hilltop Stains	Date Reported:	03-01-01
Laboratory Number:	19315	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Soil	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0:660	0.002	5.0
Barium	3.94	0.002	100
Cadmium	0.624	0.002	1.0
Chromium	1.64	0.002	5.0
Lead	8.46	0.002	5.0
Mercury	ND	0.002	0.2
Selenium	0.428	0.002	1.0
Silver	0.124	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Analyst

Mister of Waller Review



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-01-TM QA/QC	Date Reported:	03-01-01
Laboratory Number:	19310	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	03-01-01
Condition:	N/A	Date Digested:	03-01-01

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.030	0.030	0.0%	0% - 30%
Barium	ND	ND	0.001	0.139	0.137	1.4%	0% - 30%
Cadmium	ND	ND	0.001	0.038	0.039	2.6%	0% - 30%
Chromium	ND	ND	0.001	0.017	0.017	0.0%	0% - 30%
Lead	ND -	ND	0.001	0.266	0.264	0.8%	0% - 30%
Mercury	ND	, ND	0.001	ND ·	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.012	0.012	0.0%	0% - 30%
Silver	ND	ND	0.001	0.031	0.030	3.2%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent	Acceptance Range
Arsenic	0.500	0.030	0.529	99.8%	80% - 120%
Barium	0.500	0.139	0.637	99.7%	80% - 120%
Cadmium	0.500	0.038	0.538	100.0%	80% - 120%
Chromium	0.500	0.017	0.516	99.8%	80% - 120%
Lead	0.500	0.266	0.763	99.6%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.012	0.511	99.8%	80% - 120%
Silver	0.500	0.031	0.530	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19310 - 19315.

Analyst

history Wal

Client / Project Name	Ulanna	ut al	Project Location	3					Å	NALYSI	S / PAF	AMETE	RS			
Sampler: HARLAW M. B.	rown		Client No. 01	007-001	No. of	No. of Containers RCRA 8 Leta(s RCRA RCRA					R	emarks				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Ž	Cont	A J	72						<u>-</u>		
ANTI. FREEZE	2.27.01	9:55	19310	Liqu	ا رون	 L	/			,				-		-
Codes HOP Sump	2.27	10:00	19311	Liau	\ .	l									-	
MAIN SHOP Sump	Z-27	10:05	<u> </u>	Liau		1										
upper Davit Area	2.27	10:25	1	Soil		(	-									
Lover Paint Area	2.27	10:30	19314	≤0 ù(	,	(	/									
Hill top STAINS	2.27	10:40	19315	انەك	(	{	/	/								
															<del></del>	
Relinquished by: (Signatu	now			Date Time 227.0/ 10:5		2		Ρ. (	Q.L.	در			1	کرده / کرده /		ime 、どど
Relinquished by: (Signatu	re)				Heceived	by:	(Signatu	ire)	•							
Relinquished by: (Signatu	re)		<del></del>		Received	by:	(Signatı	ıre)								
			······································	ENVIRO	TEC	Н		C					Sample F	eceipt		
				gran grandalika jakot 1941.	Janas John State State	er Si								Υ	N	N/A
				5796 U Farmington,	S. Highwa New Mex	-		1				Rece	eived Intact	4	•	
					632-061		UF 10	•				Cool -	ice/Blue Ice			

District J (505) 393-6161 P. O. 26. 1980 1:06bs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 n - wict III - (505) 334-6178 7 Rio Brazos Road ~ ...c. NM 87410

Energy

New Mexico nerals and Natural Resources Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87508 (505) 827-713-1

partment

Selection of the select Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

Carc, NM 87410 District IV - (505) 827-7131	APR 2001	
REQUEST FOR APPR	ROVAL TO ACCEPT	SOUD WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑	12 13 13 SI	4. Generator
Verbal Approval Received: Yes 🔲	No 🗵	5. Originating Site INFAB
2. Management Facility Destination Envirotech Facility	n Soil Remedia. ' Landfarm #2	6. Transporter Epuiro Lech
3. Address of Facility Operator 5796 US High Farmington,		8. State Wan Maxico
7. Location of Material (Street Address or ULSTR)		592B US HWY 64 Farming on DM 87401
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exergence of the control of</li></ul>	pt wastes must be acc	
All transporters must certify the wastes delivered a	re only those consigne	d for transport.
BRIEF DESCRIPTION OF MATERIAL:  Oily dist From cut  Area.  RCRA RCI  Total Watels At  Estimated Volume Zo cy Known Volume	ta slad  (to be entered by the ope	MAR 2001 RECEIVED COLCON. DIV DIST. 3  erator at the end of the haul)  cy
SIGNATURE: Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown	TITLE: Landfarm M	DATE: 3.26.01  EPHONE NO. 505-632-0615
APPROVED BY: Maly Then The APPROVED BY: Maly The The APPROVED BY: Maly The	TITLE: Small	915 DATE: 3/27/01

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

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

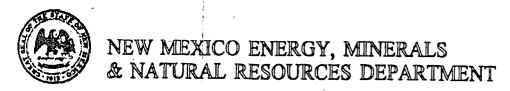
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Origina Plus I Copy to appropriate District Office

Env. JN: 01007-001

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE							
1. RCRA Exempt: Non-Exempt:	4. Generator						
Verbal Approval Received: Yes 🔲 No 🔽	5. Originating Site Tutas						
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Favirotech						
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Meroico						

7. Location of Material (Street Address or ULSTR)	592B US. Hwr64 Farmington Du.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL: Oily dint from clean up of	tyster Hydraulic leaks
Total Malals Awartsis - Affa  Estimated Volume — cy Known Volume (to be entered by the open	MAR 2001 MAR 2001 DIST. 3 DIST. 3
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 3-26-01 EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy term TITLE: GEOLO	915 DATE: 3/27/01
APPROVED BY: TITLE:	DATE:



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
FEDERATED EDULTON mental Sour	. Envirotech Soil Remediation Facility
Bedford Square, 1314 Bedford Ave.	Landarm #2
Baltimore MARTLAND 21208	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
INFAB YARD	
5928 U.S. Hwy 64	·
FARMINGTOW NU.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Oily dirt cleaned up	o@ partzing areas from Hyster
Leales	I have solved and seems sales to and seems seems
· · ·	· ·
	·
1, HAVELAN M. BYDWN (Print Name)	representative for:
(Print Name)	
Fedorated Environmented	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	• • • • • • • • • • • • • • • • • • • •
1000, regulatory determination, and above decisions	
	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
and that nothing has soon access to the sample of the	
For NON-EXEMPT waste the following documenta	
MSDS Information	X Other (description): Total Waterly
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in compliance with Regulated Levels of I	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature): Harbart	Stow
Title: Geologist - Project Man	regol
Date: 3.26.61	



### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Sample ID: Lab ID#:

Federated Environmental Oily Soil

Project #: Date Reported: 01007-001 02-26-01

Sample Matrix:

19234 Soil

Date Sampled: Date Received: 02-22-01 02-22-01

Preservative:

Cool

Date Analyzed:

02-23-01

Condition:

Cool and Intact

Chain of Custody:

8514

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

**Negative** 

pH = 7.07

**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:

**INFAB Yard** 

13 drum composite.

Mustin m Walten Analyst



#### TRACE METAL ANALYSIS

•			
Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Oily Soil	Date Reported:	02-26-01
Laboratory Number:	19234	Date Sampled:	02-22-01
Chain of Custody:	8514	Date Received:	02-22-01
Sample Matrix:	Soil	Date Analyzed:	02-26-01
Preservative:	Cool	Date Digested:	02-26-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

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

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB Yard

13 drum composite.

Analyst

Christie n Worte.
Review



# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-26-TM QA/QC	Date Reported:	02-26-01
Laboratory Number:	19234	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	02-26-01
Condition:	N/A	Date Digested:	02-26-01

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Elmit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Cadmium	ND.	ND	0.002	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.002	ND ·	ND .	0.0%	0% - 30%
Selenium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.002	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Samp	ile 2. Spiked Sample	•	Acceptance Range
Arsenic	1.00	ND	0.996	99.6%	80% - 120%
Barium	1.00	NÐ	0.996	99.6%	80% - 120%
Cadmium	1.00	ND	0.998	99.8%	80% - 120%
Chromium	1.00	ND	0.994	99.4%	80% - 120%
Lead	1.00	NĐ	0.996	99.6%	80% - 120%
Mercury	0.100	ND	0.098	98.0%	80% - 120%
Selenium	1.00	ND	0.994	99.4%	80% - 120%
Silver	1.00	ND	0.998	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 19234.

. ∆nalvet Mistor m Walters

# CHAIN OF CUSTODY RECORD

08514

Client / Project Name FEDERATED E	Eduiron	imatal	Project Location	Your	Q ,				-	Д	NALYSI	S / PAR	AMETER	S			
Sampler: Client No.		<del></del>	-001			No. of Containers	RCRA	46					Rer	marks			
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		Cont	RC Rc	102								
OilySoil	2.22.01	940	19234	S	oi (		1							13 drum	, С.	mpo	site
										<del></del> -							
																	_
					<del></del>												
							<u>=</u>									<del></del> ,	
Relinquished by: (Signatu	ire)			Date	Time	Receiy	ed by:	(Signatu	ire)					Da	ate	Tim	e
Relinquished by: (Signature)  Relinquished by: (Signature)				اه دود	1610	Receiv	Cler L. Operro 2-22-01 11:10 peived by: (Signature)				<u>'</u> 0						
Relinquished by: (Signature)						Receiv	eived by: (Signature)										
					יחס:	TC/	<u> </u>	100	$\overline{}$		· · · · · · · · · · · · · · · · · · ·	<del></del>	T	Sample Pa			_
				ENVIROTECH INC.							Sample Re	Y	N	N/A			
			5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615					Recei	ived Intact	<u>_</u>							
								Cool - I	lce/Blue Ice	-							

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

District IV - (505) 827-7131

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

0/015-001

Env. JN:

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE					
1. RCRA Exempt: Non-Exempt:	4. Generator Blinerals				
Verbal Approval Received: Yes 🔲 No 🔲	5. Originating Site Unit well 282				
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Euriro tech				
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Marsico.				
7. Location of Material (Street Address or ULSTR)	SWNW, Sec 28, T314, R16W.				
9. Circle One:					
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceded Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by				
BRIEF DESCRIPTION OF MATERIAL:  Cruda oil contaminated soil @ a  on Ute land and Ending on Na  Ute, Navigo & Blu correspondence	UNIO CAWO. 225262773				
Estimated Volumecy Known Volume (to be entered by the operator at the end of the haul) cy					
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 03.26.0 [ 505-632-0615				
(This space for State Use)					
APPROVED BY: Deny Famt TITLE: Geola	9/3/ DATE: 3/29/0/				
APPROVED BY: Chila The TITLE:	DATE:				

5-28-01:12:38PM; ENVIROTECH



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RID BRAZOS ROLD AZTEG, NEW MEXICO 67410 (505) 514-6179 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: Vulcon / Player Energy & Winards	2. Destination Name:					
650 H Sym Houston Parkway E, Ste 500	Envirotech Soil Remediation Facility					
	Landarm #2 Hilltop, New Mexico					
Houseon, Texas 77060						
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):					
Horsesmoe GALLUP on DE# 282						
SWHW, Sec 28, T3IN, RIGW.						
Attach list of originating sites as appropriate						
4. Source and Description of Waste						
Of Live Leak 600' 500 of referenced wall.						
of the Leak 600' 5 w of refundaced wall.						
I, KENNETH W. JACKSON (Print Name)	representative for:					
PLAYA MINERALS & ENERGY, INC.	do hereby certify that,					
	y Act (RCRA) and Environmental Protection Agency's July,					
1988, regulatory determination, the above described waste is: (Check appropriate classification)						
X 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 documenta	tion is attached (check appropriate items):					
MSDS Information	Other (description):					
RCRA Hazardous Waste Analysis						
Chain of Custody						
This waste is in compliance with Regulated Levels of I	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): Kenedlo-fich						
Title: REGULATORY COMPLIANCE						
- 2/0//-						
Date: 3/26/01						

# UTE MOUNTAIN UTE TRIBE



P.O. Box 248 Towaoc, Colorado 81334-0248 (970) 565-3751

March 21, 2001

Kenneth W. Jackson Regulatory Compliance Playa Minerals & Energy 650 N. Sam Houston Parkway E., Suite 500 Houston, TX 77060

Re: Notification of Transportation of Petroleum Contaminated Soil, exempt

Horseshoe Gallup Unit Well #282 and Tank Battery D

Dear Mr. Jackson:

Thank you for notifying the Ute Mountain Ute Environmental Programs Department of the transportation of oil field waste from the above referenced sites to an approved disposal site in New Mexico. It is our understanding that petroleum contaminated soil will be removed to the Envirotech disposal facility in Farmington, New Mexico.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and federal laws. The Ute Mountain Ute Tribe accepts no liability associated with the disposal of this waste.

Sincerely,

Cindy Crist, Director

Environmental Programs Department

Ute Mountain Ute Tribe

Cc: Harlan Brown, Envirotech

Gordon Hammond, UMU Energy Department

Helen Mary Johnson, BLM



## THE NAVAJO NATION

Navajo Nation Environmental Protection Agency National Pollutant Discharge Elimination System Program P.O. Box 339 Window Rock, Arizona 86515 Telephone # (520) 871-7186 Telefax # (520) 871-7599

KELSEY A. BEGAY
PRESIDENT

TAYLOR MCKENZIE, M.D. VICE PRESIDENT

L

Docket No. NNCWA-901-FY01-03

January 30, 2001

John Ehrman, President Playa Mineral and Energy Corporation 650 N. Sam Houston Parkway East, Suite 500 Houston, TX 77060

Paul Zecchi, President Central Resources, Inc. 1775 Sherman Street - Suite 2600 Denver, CO 80203

RE: Notice of Unpermitted Discharge/Order to Remediate

Messrs. Ehrman and Zecchi:

This is a notice that Playa Mineral and Energy Corporation (Playa) is not permitted to discharge into any waters of the Navajo Nation. Navajo EPA is aware of oil and saltwater released from a pipeline into an unnamed drainage within the Horseshoe Gallup Unit located northeast of Shiprock, NM. Although the release point appears to be on Ute Mountain tribal land, the drainage that collected the released oil and saltwater is on Navajo Nation land. Playa is operating on a mineral lease currently held by Central Resources, Inc.

On January 5, 2001, Navajo EPA was informed of the release of oil and saltwater. On January 12, 2001, Navajo EPA staff and two Navajo Nation Resource Enforcement Rangers met with Larry Bingham of Playa at the release site. According to Mr. Bingham, a pipeline froze-up causing a break on the line approximately 600 feet southwest of Well # 282 (SW/NW, SEC 28, T31N, R16W). This resulted in a release of 20 barrels of oil and 10 barrels of saltwater directly into the unnamed drainage. The released oil and saltwater flowed approximately 425 feet in the drainage to and over a cliff wall, and flowed another 411 feet in an unnamed wash at the bottom of the cliff: Playa field employees covered the length of the spill area with soil. The disturbed area at the break site is approximately 2500 square feet. Patches of oil stains were seen throughout the spill flow path (in the drainage and on rock surfaces). The unnamed wash is a tributary of the Sunshine Spring Draw which is a tributary of the San Juan River. Playa personnel reported this incident to the Bureau of Land Management on December 12, 2000.

The unnamed drainage receiving the released oil and saltwater is considered a water of the Navajo Nation. Section 301 of the Navajo Nation Clean Water Act (NNCWA) prohibits, without a permit, any person from discharging a pollutant into any waters of the Navajo Nation (including dry washes). Section 901 of the NNCWA authorizes the Navajo EPA Director to require persons to furnish information necessary to carry out the objectives of the Act. Section 902 of the NNCWA authorizes the Navajo EPA Director to issue an order to achieve compliance with the Act, the regulations promulgated under the Act, or permits, orders, plans, programs or fees issued or developed pursuant to this Act. The Navajo EPA is recommending that Playa cleanup the oil and salt water spill in the following manner:

- 1. Remove all contaminated soil in the drainage and unnamed wash.
- 2. Remove, to the extent possible, the oil stain from the canyon wall.
- 3. Transport and dispose of all removed contaminated soil to a certified off-site landfill or landfarm facility.
- 4. Submit the following information to Navajo EPA:
  - a. Describe all actions taken to cleanup the site.
  - b. Describe all actions taken to prevent future spills of this nature.
  - c. Date and time the contaminated soil and oil stain were removed.
  - d. Date and time the contaminated soil was placed at a certified landfill or landfarm facility.
  - e. The name, address, phone number of the certified landfill or landfarm facilities.
  - f. Amount of soil contaminated by the spill.
  - g. Location Description: description of location of the removed contaminated soil.
  - h. Describe the contaminated soil's potential impacts on aquatic and/or human health, if any.

Please be advised that you have 15 days, upon receipt of this letter, to complete all cleanup activities and provide Navajo EPA with the information requested above. A follow-up inspection will be conducted to ensure you are complying the cleanup conditions of this letter. All information requested by this letter must be sent to the following address:

Navajo EPA - WQ/NNPDES Program P.O. Box 339 Window Rock, AZ 86515 ATTN: Patrick Antonio

If you have any questions regarding this matter, please contact Patrick Antonio at (520) 871-7185.

Letter to Playa Mineral and Energy Corp. January 30, 2001 Page 3

Sincerel\

Derrith Watchman Moore, Executive Director Navajo Nation Environmental Protection Agency

xc: Jeremy Johnstone, CWA Compliance Office, US EPA-Region 9
Linda Taylor, Realty Specialist, BIA Realty Office
Akhtar Zaman, Director, Navajo Minerals Department
nnepa/npdes files



# PLAYA MINERALS & ENERGY, INC.

March 16, 2001

Bureau of Land Management San Juan Field Office Attn: Dan Rabinowitz 15 Burnett Court Durango, Colorado 81301

Re: Clean Up Plan;

Horseshoe Gallup Unit #282 SW/NW Sec. 28 T31N, 16W and

Horseshoe Gallup Unit D Battery SW/NW Sec. 34 T31N, 16W

San Juan County New Mexico

Dear Mr. Rabinowitz:

Central Resources, Inc. c/o Playa Minerals & Energy, Inc. (Central/Playa) hereby submits its Plan to clean spills at the two above referenced locations. We propose to do the following:

- 1. Remove all contaminated soil from the location.
- 2. Replace the soil with fresh clean soil.
- 3. The removed soil will be placed in an offsite certified land farm.
- 4. The fresh soil will come from an offsite location.
- 5. Junipers in the area of the spill at HGU #282 will be power washed to remove any paraffin accumulations.
- 6. After the clean up an environmental scientist will survey the two spill areas and advise if any further steps are needed.
- 7. Central/Playa will provide the Ute Mountain Ute Energy Office, the Environmental Protection Agency Office at Towoac, Colorado, and the San Juan Field Office of the Bureau of Land Management with copies of the clean up report for both locations. The clean up report will include:
  - a. the date when the contaminated soil was removed,
  - . b. the amount of soil removed
    - c. the date when the contaminated soil was placed in the certified landfarm

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- d. the name, address, and telephone number of the landfarm facilities
- e. the source of the clean fresh soil and the date it was placed at the locations.

At present Central/Playa has contracted with Envirotech, Inc. of Farmington, New Mexico to haul away the contaminated soil and place it in their landfarm facility. Any clean fresh soil brought in will be obtained from Envirotech.

In addition we have already begun excavation to remove the contaminated soil. Due to some confusion, resulting from the all parties involved with the Horseshoe Gallup Unit, we overlooked filing the clean up plan with you before commencing clean up activities at HGU #282. We apologize for this oversight and have taken steps to avoid such happening again.

Thank you for assistance and attention to this matter. If you have any questions or need any additional information please call us.

Yours truly,

Central Resources, Inc.

c/o Playa Minerals & Energy, Inc.

Kenneth W. Jackson

Regulatory Compliance

District I (305) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Pitrict III - (505) 334-6178
Rio Brazos Road
C, NM 87410
District IV - (505) 827-7131

APPROVED BY:

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Env. JN:

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

	REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE					
1.	RCRA Exempt: Non-Exempt: (7.26.00)	4. Generator EPFS.					
	Verbal Approval Received: Yes ☑ No ☐	5. Originating Site LATC-7					
2.	Management Facility Destination $\begin{array}{c} {\rm Envirotech} & {\rm Soil} & {\rm Remedia.} \\ {\rm Facility} & {\rm Landfarm} & \#2 \end{array}$	6. Transporter Daws Trucking					
3.	Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mapolico					
7.	7. Location of Material (Street Address or ULSTR)						
9.	Circle One:	Sun Juan Couly, Du					
	<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>						
Estimated Volume  Cocy cy Known Volume (to be entered by the operator at the end of the haul)  Signature: Waste Management Facility Authorized Agent  Type Or Print Name: Harlan M. Brown  Telephone No. 505-632-0615							
(T/	his space for State Use)						

charlie Rarry 12.26.00 10:00 A.d.

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:					
El Paso Field Services Co.	Envirotech Soil Remediation Facility					
614 Reilly Avenue	Landfarm #2					
Farmington, NM 87401	Hilltop, New Mexico					
Originating Site (name):	Location of Waste(Street address &/or ULSTR):					
Lateral C-7	Unit G, Section 1, T27N, R9W, San Juan Co., NM					
Attach list of originating sites as appropriate						
4. Source and Description of Waste						
Corrosion leak on pipeline released approximately	25 barrels of hydrocarbon liquids onto the soil					
11	,					
ı, 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)						
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 RCRA Hazardous Waste Analys	Other (description)					
Chain of Custody	10					
$\bigcap_{z \in \mathcal{A}} a_z$						
Name (Original Signature):	· Ban					
Title: Principal Er	nvironmental Scientist					
	<u> </u>					
Date: December :	24, 2000					

Ebne EXEC;# 5

12-24-00; 6:26PM ;

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

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 92187-001

<u> District IV</u> - (505) 827-7131	Env. JN: <u>92187-001</u>
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: Non-Exempt: Dewn Fount 3,22.01	4. Generator Wistern Gris RESources
Verbal Approval Received: Yes ⊠ No ☐	5. Originating Site San Juan Rout
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Europech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Haxico
7. Location of Material (Street Address or ULSTR)	99 Rd. 6500 Kirtland D.W. 87417
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to in of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Cartinuetion, of progring wests of  Porms Attached.	1 SPOSM (10 2001) MAR 2001 MAR 2001 MAR 2001
Estimated Volume (to be entered by the open SIGNATURE:	
Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME:  Harlan M. Brown  TEL	EPHONE NO. 505-632-0615
APPROVED BY: APPRO	DATE: 3/23/01  OGIST DATE: 3/23/1



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISION AZTED DISTRICT OFFICE 1004 RIG SRAZOS ROAD AZTEC, NEW MEXICO B7410 (806) 334-8176 PAR (808)334-8170

GARY E. JOHNSON OOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

#### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Western Gas Resources	Envirotech Inc.
P.U. BOX70 99 Rd 6500	Soil Remediation Remediation Facility
	Landfarm #2, Hilltop, New Mexico
Kirtland, N.M. 87417	5796 US Hwy 64 Farmington NM 87401
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3. Originating Site (name): Pig Recierer San Juan River	Plant
119 reclever sansaan river	) luni
99 Rd. 6500 Kirtland Nim	· P7417
Attach Bat of originating sites as appropriate	
4. Source and Description of Waste	
Pigging Sludge - Iron	Sulfiche
1 1991019 Studge Lion	Juliat
	•
•	
,	İ
(Print Name)   representative for:	
(Priot Name)	
11 sectory Gas Resources	Luc. do hereby certify that,
1988, regulatory determination, the above described	Waste is: (Check appropriate classification)
	MPT oilfield waste which is non-hazardous by characteristic by product identification
	the state of the s
and that nothing has been added to the exempt or no	n-exempt non-hazerdous waste defined above.
	A A A A A A A A A A A A A A A A A A A
For NON-EXEMPT waste the following documents	ation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	A A A A A A A A A A A A A A A A A A A
This waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subport 1403.C and D.	•
Name (Original Signature):	· · · · · · · · · · · · · · · · · · ·
·	
Tille Foild me toward Supray	ISOR
Name (Original Signature): Af thoram  Title: Feild/maintenance Superu	
- / /	
Date: 3/22/01	

10:56 No.001 P.04
MAR ~ 101
17 15055986210
GAS RESOURCES

Inter-Mountain Laporationes, Inc. WESTERN GAS RES. 598-3001
P.D. BOY PO TO
KIRTLAND N. MEY 87417 CHAIN OF CUSTODY RECORD

Client/Project Name		[INI	FT Pigging Proje	ect Location	-,		1	7						
Client/Project Name WESTERN GAS RES	SOURCES	3/0	der ISA	LAUT LA	Rissa	PLAT	/	/	ANAL	YSES	/ PAF	RAMETER	S	
Sampler: (Signature)			Chain of Cu	stody Tape I	No.	/ <u>* • · · · · · · · · · · · · · · · · · · </u>	1		7	7	7	7_		
Charles BAR	R						/ £	$/ \setminus$			/	Rem	narks	
Sample No./ Identification	Date	Time	Lab Number		Matrix		No. of Containers	13/2						
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Sheridan, Wyoming 828	801 Sher	ridan, Wyomi	ing 82801 Gillett	e, Wyoming 8	82718	Farmington	n, NM 8	7401	Co	llege S	tation, T	X 77845		
Telephone (307) 674-75	506 Telej	phone (307)	672-8945 Telepi	none (307) 6	82-8945	Telephone	(505) 3	26-4737	' Te	ephone	e (97 <u>9</u> ) 7	76-8945		

reak Search Analysis Report Generated 9/05/2000 1:12:01 Page: 1

Radiation Safety Engineering, Chandler Arizona Configuration : C:\PCNT2K\CAMFILES\500ML\100128.CNF

Sample title : 500ml marinelli Analydes by : 2nd Diff v2.1

Peak analys. date: 9/05/2000 Deposition date : 1:12

: 8/22/2000 Sample date 3:55 Acquisition date: 9/05/2000 9:13 Cample 1D : W03479 Sample quantity : 1.67E+002 g Sample type Sample geometry : 500ml Marinelli : ] Delector geometry: 500ml Marinelli

Detector name

Elapsed live time: 14400.0 secs. Elapsed roal time: 14416.6 secs. PT: 0.1% Poak end energy : 2159.40 keV Peak start energy: 0.48 keV

pensilivity : 3.00 Gaussian sons. : 0.00

Critical level : No Continuum chans. : 4

	rk	7 t	Encogy	Anga	Bkgnd	EWHM	Channel	Lot t	14W	Ots/Sec %Far	wate
	1	U	22.92	706	1958	1.11	90.11	83	1.4	0.0 12.04	
	22	()	32.72	- 3 34)	3360	0.42	127.26	123	14	-0.0 -95,74	
	3	Ü	46.80	252	3113	0.70	180.64	173		0.0 41.98	
М	4	4	74.99	3160	3866	1.17	287.55	281	35	0.2 - 2.38	2.13
Ш	5	1	77.26	5996	3905	1.17	296.16	281	35	0.4 3.53	
M	Ċ,	9	84.09	246	3228	1.29	322.05	315	36	(0.00-18.89)	1.08
Itt	7	()	87.37	2650	3294	1.29	334.49	315	36	0.2 - 2.59	
m	8	$\dot{\phi}$	89.99	1052	2972	1.29	344.43	315	36	0.1 - 5.12	
	9	()	112.43	30	2118	0.82	429.74	425	3.3	0.0 263.21	
	) ()	()	186, 32	6066	4609	1.19	709.75	701	22	0.4 2.74	
	1.1	O	209.15	257	2397	0.85	796.33	789	16	0.0 37.06	
	12	€.	238.85	342	2040	1.23	908.94	899	31	0.0 - 12.25	1.09
111	1.3	$\epsilon$	242.09	8179	2082	1.24	921.22	899	31	0.6 - 1.21	
	) 4	()	258.99	716	2692	1.26	985.31	976	24	0.0 - 16.63	
	15	()	274.64	411	1913	0.56	1044.66	1036	17	0.0 21.40	
	16	()	295.28	18091	3240	1.28	1322.93	1108	30	1.3 1.07	
M	TT	19	333.30	189	1488	2.01	1267,13	1261	37	0.0 - 19.75	0.48
M	18	19	338.50	193	2218	2.01	1286.82	1261	37	0.0 - 19.20	
	19	()	357.95	31341	3205	3.33	1337.85	1313	39	2.2 - 0.75	
M	$\Sigma 0$	7	386.84	222	932	1.10	1470.15	1.464	25	0.0 - 13.35	1.32
fû	2.1	.1	388.79	241	932	1.10	1477.55	1464	25	0.0 - 12.42	
	22	()	454.82	263	1135	1.13	1727.95	1717	ZJ	0.0 - 89.00	
M		Ç,	477.40	117	854	1.52	1813.57	1805	50	0.0 - 21.82	0.33
	2.4	(5	480.46	212	869	1.52	1825.17	3802	$\Gamma_{i}$ ( )	0.0 - 12.87	
M	25	6	487.16	274	788	1.50	1350.59	1805	56	0.0 10.44	
	26	()	530,04	608	1235	2.46	1940.76	1924	33	0.0 14.91	
	27	O	533.64	8.7	462	0.33	2026.84	2020	15	0.0 - 45.48	
	$S_B$	O	579,89	85	744	9.09	2202.25	2392	18	0.0 67.44	
	$\mathbb{R}_{O}$	()	609.14	22480	1070	1.50	2310.14	2301	30	1.6 0.76	
	30	()	665, 19	64.4	537	1.64	2525.70	2515	23	0.0 8.83	
	31	()	702.91	196	520	0.91	2668.73	2658	30	0.0 25.25	
	32	0	719,55	134	493	1.11	2731.84	2721	$\mathbb{R}()$	0.0 35.66	
	33	O	752.76	Sec.	308	1.03	2357.77	2352	14	0.0 58.76	
	34	()	768.07	2093	621	1.63	2915.85	2901	28	0.1 - 3.58	
	35	()	705.64	474	431	1.15	2982.48	2975	3.7	0.0 9.72	
	36	()	805.01.	454	493	1.46	3059.35	3050	20	0.0 11.22	
	37	()	838.69	326	518	2.03	3180.64	3174	23	0.0 16.33	
	38	0	910.76	116	428	1.34	3456.93	3449	3.7	0.0 36.07	
	39	0	900.65	3103	483	1.63	3543.75	3534	23	0.1 5.32	
	40	()	963,98	176	531	1.77	3658.76	3642	27	0.0 31.62	

VMS Peak Search Report (continued) Sample 1D: W03479 Page: 2 Acquisition date: 9/05/2000 19:11

	Ł' k	11.	Energy	Area	Bkgnd	EWNAM	Channel	Left.	RW	Cts/Sec %Err	vit
М	11	32	1044.72	1.1	317	1.91	3964.95	3959	44	0.0 95.30	1.23
ìń	42	32	1051.53	309	390	1.92	3990.77	3959	4.4	0.0 14.32	//, 1/
	43	()	1069,43	91	224	1.19	4058.65	4052	14	0.0 31.80	
	11	()	1119.74	4816	567	1.83	4249.42	4234	34	0.3 - 1.92	
	45	()	1103.61	1.15	266	0.64	4302,03	4295	19	0.0 30.41	
	46	()	3154.69	569	408	1.16	4381.96	4370	24	0.0 - 8.98	
	47	()	1207.12	100	307	1.28	4580.81	4572	20	0.0 - 37.68	
	48	0	1237.49	1729	411	1.77	4695.96	4682	28	0.1 - 3.68	
	49	Ü	1252.82	106	234	1.07	4754.11	1717	19	0.0 31.13	
	50	()	1280.37	473	341	0.8.1	4858.58	4844	31	0.0 - 10.73	
M	51	3	1376.96	1392	303	2.04	5224.87	5211	54	0.1 - 2.95	0.79
m	52	3	1384.50	232	271	2.04	5253.45	5211	54	0.0 - 8.76	
M	53	4	1400.82	332	258	1.91	5315.34	5306	4.9	0.0 - 6.99	0.67
3'(1	54	4	1407.26	691	265	1.92	5339.77	5306	49	0.0 - 4.39	
	55	()	1460.04	510	266	1.63	5539.91	5500	27	0.0 - 8.71	
	56	()	1508.48	534	420	2.03	5723.60	5707	28	0.0 - 10.11	
Μ	57	12	1537.94	61	310	1.76	5835.34	5825	47.	0.0 - 26.65	1.03
ra	58	12	1542.71	140	268	1.76	5853.42	5825	4.1	0.0 13.64	
	50	0	1582.36	231	261	1.90	6003.77	5993	29	0.0 - 18.13	
	CO	()	1598.13	16	1.87	0.67	6063.59	6057	17	$0.0 \ 169.19$	
	61	()	1060.54	267	120	1.99	6300.23	6289	24	0.0 11.03	
	62	0	1728.89	931	150	2.13	6559.44	6545	29	0.1 - 4.56	
	63	Ō	1763.76	4045	1.38	2.13	6691.68	6678	33	0.3 1.74	
M	64	4	1837,83	69	50	2.24	6972.56	6964	57	0.0 - 15.16	0.85
M	65	4	1846.75	625	83	2.24	7006.40	6964	57	0.0 - 4.24	
	66	0	1872.47	43	88	1.03	7103.91	7090	24	0.0 51.11	
	67	0	2016.52	_37	40	0.51	7650.17	7642	17	0.0 36,86	
	68	()	2118,22	296	18	352	8035.87	8024	27	0.0 - 6.71	

 $M = \mbox{First peak in a multiplet region or fitted singlet <math display="inline">m = \mbox{Other peak in a multiplet region}$ 

Errors quoted at 1,000 sigma

Interference Corrected Activity Report

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Sample Title:

500ml marinelli

Nuclide Library Used: C:\GENIE2K\CAMFILES\STDLIE.NLB

		DEV	MILEIED M	UCEDES	****
Nuclido Namo	id Confidence	Energy (keV)	Yield (%)	Activity (pch/g )	Activity Uncertainty
BE- 7	0.994	477.59	10.42	4.7247515-001	1.03885%-001
K-40	0.917	1460.814	. 10.67	4.20071E+000	3.80690E 001
1-126	0.991	388.634	29.10	5,24106E-001	7.91815E-002
PB 212	0.916	74.81*	9,60	1.19618E-001	9.88224E-001
		77.114	17.50	1.15687E+001	7.90751E-001
		87.20*	6.30	1.10743E+003	4.60206E-001
		89.80*	1.75	1.50815E+001	8.86538E-001
		115.19	0.60		
		238.634	44.60	1.51873E-001	1.91394E-002
		300.09	3.41	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, c c c c c c c c c c c c c c c c c c c
B) -214	0.966	009.314	46.30	2.06685F4001	4.67125E-001
		768.36*	5.04	2.13734E+001	8.80107F-001
		806.17*	1.23	1.976126+001	2.25174E+000
		934.064	5.21	2.08495E+001	1.17223E(000
		1120.29*	15.10	2.25987E+001	6.18593E-001
		1155.19*	1.69	2.44860E4001	2.25201E+000
		1238.114	5.94	2.24322E+001	9.54437E-001
		1280.96*	1.47	2.55028E+001	2.79273E+000
		1377.67*	4.11	2.84579E+001	1.05825E(000
		1385.31*	0.78	2.50620E+001	2.26848E+000
		1401.50*	1.39	2.03490E+001	1,4968164000
		1407.98*	2.48	2.38231E+001	1,17901E+000
		1509.194	2.19	2.19863E+001	2.27767E4000
		1661.29*	1.15	2.24123E+001	2.52434E+000
		1729.60*	3.05	3.02555E+001	1.56732M 000
		1764.49*	15.80	2.568975+001	8.03653E-001
		1847.44*	2.12	3.04056E+001	1.60826E+000
		2118.54*	1.21	2.68687E+001	2.59608E+000
PB-214	0,999	74.81*	6.33	1.81414E+001	1.49875E+000
. 12 (.3 .	* * * * * * *	77.11*	10.70	1.8921054001	1.29330F+000
		87.20*	3.70	1.88566E+001	7.88716E-001
		89.80*	1.03	2.56243E+001	1.50628E+000
		241.98*	7.49	2.39082E+001	7.61857E-001
		295.21*	19.20	2.33958E+001	7.04125E-001
		351.92*	37.20	2.35390E+001	6.0403.Hs-003
		785.91*	1.10	2.26111E+001	2.24417E+000
RA-226	0.998	186.23*	3.28	3.55723E+001	1.37359E+000
AC-228	0.523	338.32	$\frac{3.20}{11.40}$	4.61233E-001	8.93285F 002
A Committee of the Section of the Se	57 W 17 C157	911.60*	27.70	2.49125K-001	8.99893E-002
		969.11	16.60	2. <b></b> 2. 1. 2. 2. 3. 1. 2. 2. 3. 1. 2. 2. 3. 1. 2. 2. 3. 1. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	ひていいひいりのかに ひひと
TH-231	0.999	26.64	18.70		
111 2.01	A Property Control	A. C.	10 - 10		

3.00 8.67770E-001 1.67599E-001

84.21\*

Interference Corrected Activity Report. 9/05/00 1:12:02 PM Page 4

Nuclide Namo	1d Confidence	Energy (keV)	Yiledd (%)	Activity (pdi/g)	Activity Uncertainty
TH-231 U-235	0.999 0.456	89.95* 89.96* 93.35 105.00 109.14 143.76	1.25 1.50 2.50 1.00 1.50	2.11141E+001 1.75951E+001	1.24115E+000 1.03429F+000
	·	163.35 185.71* 202.12 205.31	4.70 54.00 1.00 4.70	2.16065E+000	9.03947E-002

Errors quoted at 1,000 sigma

<sup>\* -</sup> Energy line found in the spectrum.

0 - Energy line not used for Weighted Mean Activity
Energy Tolerance : 0.500 FWHM

Nuclide confidence index threshold = 0.30

Interference Corrected Activity Report

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\*\*\*\*\* INTERFERENCE CORRECTED REPORT 

	Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/q )	Wt mean Activity Uncertainty
	BE 7	0.994	4.724754E-001	1.038849F 001
	K-40	0.917	4.200710E±000	3.806900k-001
X	CD- 109	0.938		
	1 - 3226	0.991	5.241061E-001	7.918150E-002
	PB-212	0.916	1,460217E-001	1.9121151-002
	B1 - 2.14	0.966	2.293122E+001	2.505616E-001
	PB-214	0.999	2.2156905+001	3.275091E-001
	RA 226	0.998	1.108405E+001	1.762949E+001
	AC+ 228	0.523	3.559605E-001	6.339713E-002
	191-201	0.999	8.677697E-001	1.675883E-00T
	ロ・235	0.456	1.487410E+000	1.06773954000

<sup>? -</sup> muddide is part of an undetermined solution

Fireness quoted at 1.000 sigma

<sup>% -</sup> muclide rejected by the interference analysis 0 - muclide contains energy lines not used in Weighted Mean Activity

Interlemence Corrected Activity Report

9/05/00 1:12:02 PM Page 6

Peak Locate Performed on: 9/05/00 1:12:01 PM
Peak Locate From Channel: 5

Peak Locate From Channel: 5 Feak Locate To Channel: 8192

	Peak	Energy	Peak Sizo in	Peak CPS
	No.	(keV)	Counts per Second	% Uncontainty
	• • • • • • • • • • • • • • • • • • • •	ara di Cara da	•	.,
	1	22.92	4.9051E-002	12.04
	2	32.72	-7.6389E-003	-95.74
	Ģ	46.80	1.7465E-002	41.98
	9	112.48	2.0486E-003	263.21
	11.	209.15	1.7824E-002	37.06
	14	258,99	4.9722E-002	16.63
	15	274.64	2.8507E-002	21.43
М		333.30	1.3146E-002	19.75
М	20	386.84	1.5400E-002	13.35
	22	454.82	1.81486-002	29,00
	24	480.46	1.4725E 002	12.87
311	25	487.16	1.90578-002	10.44
	26	500.94	4.2234E-002	14.91
	27	533.64	6.0069E-003	45.48
	28	579.89	5.6944E-003	67.44
	30	665.19	4.4745E-002	8.83
	31	702.91	1.3611E-002	25.25
	32	7719.55	9.2824E-003	35.66
	33	752.76	3.88891-003	58.76
	37	838.69	2.2604E-002	16.33
	40	063.98	$1.2222  ext{F} \cdot 002$	31.62
Μ	4.1	1044.72	7.9380E-004	95.30
III	42	1051.53	7.5589E-003	14.32
	43	1069.43	6.3194E-003	31.80
	45	1303.61	7.9861E-003	30.41
	17	1207.12	6.9676E-003	37.68
	4.9	1252.82	7.3390E-003	31.13
	57	3537.94	4.2405E-003	26.65
10	50	1542.71	9.7246E-003	13.64
	59	1582.36	1.6042E~002	38.13
	GO.	1598.13	1.1111E 003	169.19
М	(1)	1837,83	4.7772E-003	15.16
	66	1872.47	2.9861E-003	51.11
	67	2016.52	2.5926E-003	36.86

M = First peak in a multiplet region m = Other peak in a multiplet region F = Fitted singlet

Errors quoted at 1.000 sigma

Nuclide MDA Report

9/05/00 1:02:03 PM

Page 7

Detector Name:

DETOL

Sample Geometry:

500ml Marinelli

Sample Title:

500ml marinelli

Nuclide Library Used: C:\GENTE2K\CAMFILES\STDLAB.NLB

	Nuclide Namo	Energy (keV)	Yi.e.) d (%)	hine MDA (pCi/g )	Nuclido MDA (pCi/g )	Activity (pCi/g )
	K-40	1460.814	10.67	8.2336E-001	8.21E-001	4.2007£4000
	SIC: 4 C.	889.25	99.98	9.2721E-002	9.27E-002	-3.4751E 002
		1120.51	99.99	2.2125E-001		3.7805R:000
	CO 57	122.06	85.51	7.3539E-002	7.35E-002	-1.0899E-001
		136.48	10.60	5.9547E-001		1.025TE 001
	CO60	1173.22	100.00	8.5362E-002	8.445 002	-1.8343E-002
		1332.49	100.00	8,4350E-002		3.4555W 002
	SE 75	96.73	3.41	2.30125+000	1.1119-000	1.591664000
		121.11	16.70	3.9673E-001		3.05021 001
		136.00	59.20	1.1089E-001		-1.6026F 001
		198.60	1.45	4.9169E+000	•	6.66728+000
		264.65	59.80	1.1555E-001		1.305TE-002
		279.53	25.20	2.7800E-001		6.1230F 002
		303.91	-1.32	5.0724%+000		4.1481 M 000
		400.65	11.40	6.5034E-001		-4.2575E-001
	KR- 85	513.99	0.43	1.6128E+001	1.G1Ea-001	· 6.1332E+000
(ä	KR BDM	151.18	75.30	1.0000E+026	$1.00$ E $_{0.26}$	1.000000+026
[d		304.87	14.00	1.0000E+ $026$		J. 0000Fa 026
	SR-85	513.99	99.27	8.0770E-002	8.08E-002	-3.0716E 002
	RB: 86	1077.00	8.64	1.5449E+000	$1.54  \mathrm{Mac}(0.00)$	B.8489E-001
	A-188	898.02	93.40	9.9371E-002	$6.90 \times 002$	6.4275E-002
		1836.01	99.38	6.8984E-002		- 4.9756E-002
	SR89	908.96	0.01	1.0957E+003	1.106+003	3.6222E9 002
	CD-109	88.03*	3.72	1.5152E+000	1.52E+000	1.9143E1001
	SN- 113	255.12	1.93	3.5805E+000	1.19E-001	1.8705km 000
		391.69	64.90	1.1892F-001	to A Plant Coate	2.2337F 002
	CD 104	475.35	1.46	4.73028+000	8.45E 002	9.4438E 001
		563,23	8.38	7.773915-001		-1.1481E-001
		569.32	15.43	4.2513E-001		3.4320K-001
		604.70	97.60	2.4969E-001		-1.3174E 003
		795.84	85.40	8.4488E-002		-6.4578F-002 3.6463F4000
		801.93	8.73	9.6557E-001		
		1038.57	1.00	8.0606E+000		4.30786+000 - 1.5540E+000
;		1167.94	1.80	4.6742E+000		
		1365.15	3.04	2.8126F4 000	).55E-001	-4.7620E-001 -1.8721E+000
	CS- 336	66.91	12.50	3.0131E+000	1.00E-00x	3.1286E+001
		86.29	6.30	3.5917E+000		-4.2431E-001
		153.22	7,46	1.7642E+000 2.8059E+000		-1.0345E+000
		163.89	4.61	1.0026E+000		-8,498716-001
		176.55	13.56	1.0587E+000		3.4699E1000
		273.65	12.66	2.84218-001		-1.1691E-003
		340.57	48.50	7.047.1D=001		1 * 2 (3 5 1 E); (4(3))

Nuclide MDA Report

9/05/00 1:12:03 PM Page 8

		Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/g )	Nuclide MDA (pCi/g )	Activity (pCi/g )
		CS 136	818.50 1048.07 1235.34	99.70 79.60 19.70	1.5509E-001 2.1381E-001 1.5032E+000	3.55E-003	*3.2521E-002 1.3359E-001 1.3737E+001
	6)	CG- 138 CG- 138	661.65 138.10 227.76	85.12 1.49 1.51	8.7684E-002 1.0000E+026 1.0000E+026	8.77E 002 1.00E 026	3.8304E 001 1.0000E 026 1.0000E 026
	() () ()	·	408.98 462.79 546.94	4.66 30.70 10.80	1.0000E+026 1.0000E+026 1.0000E+026		1.0000E+026 1.0000E+026 1.0000E+026
	10 10 10 10		871.80 1009.78 1147.22	5.11 29.80 1.24	1.0000E+026 1.0000E+026 1.0000E+026		1.0000E+026 1.0000E+026 1.0000E+026
	(g (r)	LA: 138	1343.59 1435.86 788.74 1435.80	1.14 76.30 33.60 66.40	1.0000E+026 1.0000E+026 2.4682E-001 1.3243E-001	1.32E 001	1.0000F4026 1.0000F4026 8.4078F 001
		CHG-139 GD: 153	165.85 69.67 83.37	80.35 2.54 0.21	8.7315E-002 7.0435E+000 5.8333E+001	8.73K-002 2.48E-00)	8.9897E-003 -1.7337E-002 -9.4486E4000 -2.7405E4003
		HG 200	97.43 103.18 279.19	30.20 × 21.40 77.30	2.4764E-001 3.2094E-001 1.0320E-003	1.036-001	1.9169E-001 -1.1696E-001 7.7223E-002
· <b>1</b>		B1 + 2114	609.31* 768.36* 806.17* 934.06*	46.30 5.04 1.23 3.21	1.9040E-001 1.5693E+000 5.2355E+000 2.3728E+000	1.90K-001	2.066960001 2.137360001 1.976360001 2.085064001
			1120.29* 1155,19* 1238.11*	15.10 1.69 5.94	7.4715E-001 5.0543E+000 1.6257E+000		2.2599F0001 2.4486F003 2.2432F0001
			1280.96* 1377.67* 1385.31*	1.47 4.11 0.78	6.4280E+000 1.3245E+000 6.6320E+000		2.5503E+001 2.8458E+001 2.5062E+001
			1401.50* 1407.98* 1509.19* 1661.28*	1.39 2.48 2.19 1.15	3.6733£+000 2.0924E+000 5.2178E+000 5.4099E+000		2.03496+001 2.38236+001 2.1986E:001 2.2412E+001
			1729.60* 1764.49* 1847.44*	3.05 15.80 2.12	2.5164E+000 4.9732E-001 1.6636E+000		2.241264001 3.025564001 2.569064001 3.040664001
4		PB-214	2118.54* 74.81* 77.11*	1.21 6.33 10.70	2.4649E+000 1.3040E+000 7.2026E-001	3.018-001	2.6869E+001 1.8141E+001 1.8921E+001
			87.20* 89.80* 241.98*	3.70 1.03 7.49	1.4925E4000 4.8567E+000 4.8843E-001		1.8857E+001 2.5624E+001 2.3908E+001
-}	i.	AC- 228	295.21* 351.92* 785.91* 338.32*	19.20 37.20 1.10 11.40	4.0444E-001 3.0105E-001 5.0444E+000 4.1271E-001	2.2GE-001	2.3396F(00) 2.3639F(00) 2.2611F(00) 4.6123F(00)
			911.60* 969.11	27.70 16.60	2.2620E-001 5.2052E-001		2.4912E-001 6.0940E-001

Nuclide MDA Report

9/05/00 1:12:03 FM

Page 9

Nuclide Name	Energy (keV)	Yield (%)	hine MDA (pCi/g )	Nuclide MDA (pCi/g )	Activity (pCi/q )
PA 234	94.67 98.44 111.00 131.28 152.70 226.87 569.26 733.00 883.24 946.00	15.50 25.10 3.55 20.00 7.20 6.50 10.40 8.50 12.00 20.00	5.1405E-001 2.7978E-001 7.4510E-003 2.9909E-001 8.8530E-001 9.7329E-001 6.2329E-001 9.0226E-001 3.9040E-001	2.80E-003	-2.4241E-001 -4.5323E-001 -6.7609E-001 -7.2485E-001 -7.9846E-001 -3.7495E-001 -6.3676E-001 -4.4856E-001 -1.8752E-001
PA 234M TH 234	949.00 1001.03 63.29 92.38 92.80 112.81	7.80 0.59 4.50 2.60 2.60 0.26	1.0074E+000 1.350GE+001 7.0562E+000 5.3204E+000 5.0716E+000 3.6334E+001	1.36E)001 5.07E)000	3.7564E-001 4.7606E+000 -4.0761E+000 -3.0701E+000 -8.2080E-001 4.1349E+001

Proposition identified during the nuclide identification
To Energy line found in the spectrum
To MDA value not calculated
To Half life too short to be able to perform the decay correction

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

(This space for State Use)

APPROVED BY:

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Submit Original Plus I Copy to appropriate District Office

Form C-138

Originated 8/8/95

(505) 827-7131

.c, NM 87410 trict IV - (505) 827-7131	Env. JN:
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Robert C. Beyles
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Tocito Done C
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter O & Oilfie las en
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Daw Majoi co
7. Location of Material (Street Address or ULSTR)	8. State Daw Marico NE Sec Zo TZGN, RIBW SHN Juan Comby, Ny.
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept olifield exempt wastes will be accept acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Spent Sulfatreed.</li> </ul>	companied by a certification of waste from the companied by necessary chemical analysis from the companied by necessary chemical analysis from of origin. No waste classified hazardous by
SIGNATURE: Harlan M. Brown	perator at the end of the haul) ————————————————————————————————————



#### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIG GRAZOG ROAD AZTEC, NEW MEXICO 97410 (808) 334-8178 Fam (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

#### **CERTIFICATE OF WASTE STATUS**

ROBERT L. BAYLESS PO BOX 168	Envirotech Soil Remediation Facility  Landarm #2
FARMINGTON, NM 87499	Hilltop, New Mexico
3. Originating Site (name):  TOCITO DOME CENTRAL TANK BATT  NE/4 SELTION 20, T26N, R18 W  SAN JUAN COUNTY, NM  Attack list of originating sites as appropriate  4. Source and Description of Waste  SPENT SULFATREAT, GREY GRAVE.	·
,	CORIC
ROBERT L. BAYLESS	representative for:
ROBERT L. BAYLESS	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	tion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	
Title: <u>ENGINGER</u> Date: 3/12/01	
Date: 2/12/6	

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

APPROVED BY:

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

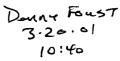
Env. JN:

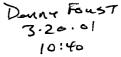
Form C-138 Originated 8/8/95

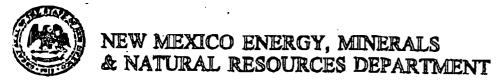
> Submit Original Plus I Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 73.20-01	4. Generator Robert (Briggess
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Golden Bear No 3
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter O & Wall Service
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Hatico
7. Location of Material (Street Address or ULSTR)	HE Sec Z T 29 A R 13W SAW Juan County Nec.
9. <u>Circle One</u> :	٥
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Water Toute bottom Material, Parathin,	MAR 2001  MAR 20
Estimated Volume cy Known Volume (to be entered by the open	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 3.20.01  EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: 1 Emp Jam TITLE: Geolo	9 (3) DATE: 3/20/0/

;5056321865







OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICD 87410 (505) \$34-6179 Fam (505) \$34-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:					
ROBERT L. BAYLESS	Envirotech Soil Remediation Facility					
PO 802 168	Landarm #2					
FARMINGTON, NM 87499	Hilltop, New Mexico					
	Location of the Waste (Street address &/or ULSTR):					
3. Originating Site (name):  GOLDEN BEAR No. 3						
NE/4 SELZ, TZGN, RISW	· ·					
SAN JUAN COUNTY, NM Attach list of originating sites as appropriate						
4. Source and Description of Waste						
WATER TANK BOITOM MATERIA	L, PARAFFIN, SAND, FINES,					
/ CUBIC WARD.	]					
, 55.5.						
1. Jom M CARTHY						
(Print Name)	representative for:					
KOBERT LINAYLESS	do hereby certify that,					
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July					
1988, regulatory determination, the above described v	Vaste IS: (Check appropriate classification)					
EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic					
analysis or	by product identification					
and that nothing has been added to the exempt or nor	Lavamet non homordana masta di Cari di di					
Bid that nothing has occur added to the exempt of home	-exempt fibri-fiazardous waste defined above.					
For NON-EXEMPT waste the following documentate	ion is attached (check appropriate items):					
MSDS Information	Other (description):					
RCRA Hazardous Waste Analysis	• • •					
Chain of Custody	<u> </u>					
This waste is in compliance with Regulated Levels of N	sturally Occurring Radioactive Material (NORM) pursuant					
to 20 NMAC 3.1 subpart 1403.C and D.						
A AUTHORITATION						
Name (Original Signature): W W W						
Title: ENGINEERS						
Title: <u>ENGINEE</u> .  Date: <u>3/12/01</u>	The state of the s					
Date: 3/12/0/						
	· · · · · · · · · · · · · · · · · · ·					

District - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178 Rio Brazos Road c, NM 87410 مدر

District IV - (505) 827-7131 TO THE RESIDENCE OF THE PROPERTY AND THE PROPERTY OF

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

 	 ~-	 ~	 	 -	 	

Env. JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Roring Sile of Riso A.a.	4. Generator Consco
Verbal Approval Received: Yes No 🔲	5. Originating Site Lowewick 3E
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Den Marsico
7. Location of Material (Street Address or ULSTR)	HWSE See 18, TZTARGW SWWJuan Comby N. M.
9. <u>Circle One</u> :	Swal Juan Couly D. M.
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Frask water drilling Flerid.	MAR 2001 PRECEIVED OILCON. DIV DIST. 3
Estimated Volume — 900 661 cy Known Volume (to be entered by the op-	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Manager DATE: 3 · 19 · 01  EPHONE NO. 505-632-0615
APPROVED BY: Deny Jon TITLE: Geology  APPROVED BY: TITLE: GUE	DATE: 3/20/01 Slogist DATE: 3/20/1

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

#### **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
LONGED INC.	Envirotech Soil Remediation Facility
CONOCO, INC, 3315 BLOOMFIELD HIGHWAY	Landarm #2
	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
LODEWICK 3E	<u>.</u>
1355 FSL & 1725 FEL OF SEC	CTION 18-T27N-R9W, SAN JUAN
COUNTY, NEW MEXICO	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
FRESH WATER DRILLING FLUID	(Mud)
•	<u> </u>
I, JESSE L. SPLAGUE (Print Name)	representative for:
(Print Name)	
CONOCO INC.	do hereby certify that
1988, regulatory determination, the above described	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described to	Waste is. (Check appropriate classification)
XEXEMPT oilfield waste NON-EXEN	1PT oilfield waste which is non-hazardous by characteristic
	by product identification
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	Naturally Occurring Radioactive Material (NORM) pursuan
to 20 NMAC 3.1 subpart 1403.C and D.	•
Name (Original Signature):	- egel
(0.5	V
Title: COMPANY KET	
Name (Original Signature):	
Date: ////// 191- 2001	

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

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

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Env. JN: <u>97057</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 3.16.01	€PFS 4. Generator
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Ballace Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PSC
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mospico
7. Location of Material (Street Address or ULSTR)	8. State New Marico EZ, Sec 26, TZGN, RQW 542 Transmity NW.
9. Circle One:	J
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Soil contaminated w/ petrolaum hydroca Fuel scrubber	MAR 2001 MAR 2001 MAR 2001 MAR 2001 DIST. 3  Perator at the end of the haul)  Cy
Estimated Volume ————————————————————————————————————	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Landfarm M  Waste Management Facility Authorized Agent  Harlan M. Brown  TEL	505-632-0615
TYPE OR PRINT NAME: Hartan M. Brown TEL	EPHONE NO.
APPROVED BY: State Use)  APPROVED BY: State Use)  APPROVED BY: State Use)  TITLE: Geology  TIT	0915T DATE: 3/20/01
APPROVED BY: TITLE: 90010	DATE: 3/20/

#### **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
	/
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Ballard Plant	E/2 Section 26. T26N, R9W, San Juan Co., NM
Attach list of originating sites as appropriate	
Source and Description of Waste	
   Soil contaminated with hydrocarbon liquids from fu	uel scrubber
ı, David Bays	representative for:
(Print Name)	representative for.
FID FILE	
El Paso Field Services	
1988 regulatory determination, the above describe	overy Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification)
•	
X EXEMPT Oilfield waste	NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification
and that nothing has been added to the exempt or	non-hazardous waste defined above
and that hothing had been daded to the exempt of	TION HOLLANDS WAS COMPANIES ABOVE.
For NON-EXEMPT waste only, the following docu	mentation is attached (check appropriate items)
·	
MSDS Information	Other (description)
RCRA Hazardous Waste Analy Chain of Custody	SIS
	^ _
Name (Original Signature):	il 13 ag
Tille.	- Taving a part of Coigntist
Title: Principal E	Environmental Scientist
Date: March 19,	2001

(595) 393-6161 O. Box 1980 985s, NM 88241-1980 - (565) 748-1283

trict III - (505) 334-6178

- (505) 827-7131

a, NM 88210

Rio Brazos Road

.c, NM 87410

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

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Env. JN: 95026

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator BJ. Services
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Hain Yurs
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Edulos Lech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Moroico
7. Location of Material (Street Address or ULSTR)	3250 Southsile River Road. FARMING ton Daw Mexico.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Continuation of wash bay solids.  (New TCLP Attached)  MAR 2001  RED DO CY Known Volume (to be entered by the open	erator at the end of the haul) — cy
SIGNATURE: Hon Con Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 3.20.0 ( EPHONE NO. 505-632-0615
APPROVED BY: Manh. O'X TITLE: ENCHORMENT	DATE: 3/20/01

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

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 95026

REQUEST FOR APPROVAL TO ACCEPT	PT SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator BJ. Services
Verbal Approval Received: Yes No 🖂	5. Originating Site Hain Yura
2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2	· 6. Transporter Eduly tech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Moroico
7. Location of Material (Street Address or ULSTR)	3250 Southsile River Roxo. FARMINGTON DOWNERICO.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certificate listing or testing will be approved.</li> </ul> All transporters must certify the wastes delivered are only those consign.	ecompanied by necessary chemical analysis to tion of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Continuation of wash bay solids. (New TCLP Attached).	MAR 2001  MAR 20
Estimated Volume cy Known Volume (to be entered by the c	operator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm  Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TE	Manager DATE: 3.20.0(  ELEPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY:   TITLE:   GEOLO  TITLE:   TITLE:	0915T DATE: 3/20/01
APPROVED BY: TITLE:	DATE:



#### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO' 87410 (300) 334-6176 Fax (305)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

#### **CERTIFICATE OF WASTE STATUS**

	740	Services  South side River 2840 Lan  Ming ton, New Mex. 87401 Hil	Destination Name: irotech Soil Remediation Facility darm #2 ltop, New Mexico
	85 3250 Foru		tion of the Waste (Street address & for ULSTR):  re-Wash Boy Solids Facility
4. A F.			nation of Work Bong lids
	ccordina	Les Bauah BI Servicio to the Resource Conservation and Recovery Act	representative for:  do hereby certify that, (RCRA) and Environmental Protection Agency's July,
•	988, reg	latory determination, the above described waste	of (Charle anneaution elections)
_	, i	PT oilfield waste X NON-EXEMPT oil	ield waste which is non-hazardous by characteristic duct identification
-	EXEN	PT oilfield waste X NON-EXEMPT oil	ield waste which is non-hazardous by characteristic duct identification
	EXEI	PT oilfield waste NON-EXEMPT oilfield waste analysis or by pro	ield waste which is non-hazardous by characteristic duct identification  pt non-hazardous waste defined above.
F	EXEING THE TOTAL NO.	PT oilfield waste  NON-EXEMPT oilfield waste or by property of thing has been added to the exempt or non-exempt or	ield waste which is non-hazardous by characteristic duct identification apt non-hazardous waste defined above.  attached (check appropriate items):
	EXEINATION TO NON This waste to 20 NM.	PT oilfield waste  NON-EXEMPT oilfield waste or by property of thing has been added to the exempt or non-exempt or	itield waste which is non-hazardous by characteristic duct identification  apt non-hazardous waste defined above.  attached (check appropriate items):
	EXEI  and that n  for NON  this waste o 20 NM  lame (Otille:  title:  505327	PT oilfield waste  NON-EXEMPT oilfield waste or by property or property of thing has been added to the exempt or non-exementation is a MSDS Information  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  is in compliance with Regulated Levels of Natural C 3.1 subpart 1403.C and D,  iginal Signature):  Author  All L/OI	itield waste which is non-hazardous by characteristic duct identification  apt non-hazardous waste defined above.  attached (check appropriate items):  Y Other (description):  Le affunction Stricture  by Occurring Radioactive Material (NORM) pursuant  appropriate items):  #2316-002

#### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCLP

Printed Name

Title / Agency Facilities Supervisor

Address 3250 Southside River ROAd

Signature

Date

#2325 P.002/003

MAR.16'2001 10:38 RECEIVED FROM:

5056321865



#### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Sample ID: **B J Services** Wash Bay Solids Project #:

95026-001

Lab ID#:

19171

Date Reported:

02-07-01

Date Sampled:

02-02-01

Sample Matrix:

Sludge

Date Received:

02-02-01

Preservative:

Cool

Date Analyzed:

02-05-01

Condition:

Cool and Intact

Chain of Custody:

8498

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 10.19

REACTIVITY:

**Negative** 

RCRA Hazardous Waste Criteria

**Parameter** 

**Hazardous Waste Criterion** 

**IGNITABILITY:** 

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

**CORROSIVITY:** 

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

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

REACTIVITY:

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

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

Reference:

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

Comments:

3250 Southside River Road.



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

Client:	B J Services	Project #:	95026-001
Sample ID:	Wash Bay Solids	Date Reported:	02-06-01
Laboratory Number:	19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-06-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

3250 Southside River Road.

Analyst Cefrene

Mistry M Wall



#### ∠PA METHOD 8040 PHENOLS

Client:	B J Services	Project #:	95026-00 <b>1</b>
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	· 19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-09-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

3250 Southside River Road.

Analyst Colore



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

Client:	B J Services	Project #:	95026-001
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-09-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

100%

References:

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

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

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

Note:

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

Comments:

3250 Southside River Road.

Den L. Office.
Ahalyst

Mister My Walter



### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

•			
Client:	B J Services	Project #:	95026-001
Sample ID:	Wash Bay Solids	Date Reported:	02-07-01
Laboratory Number:	19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Analyzed:	02-06-01
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ملد			
Arsenic	0.054	0.001	5.0
Barium	0.627	0.001	100
Cadmium	0.021	0.001	1.0
Chromium	0.049	0.001	. <b>5.0</b>
Lead	0.084	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.012	0.001	1.0
Silver	0.004	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3250 Southside River Road.

Analyst

Misterin Walten
Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-06-01
Laboratory Number:	02-06-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample 19170 - 19171.

Allen P. Oglenn Analyst

Christin of Laster Review



# \_PA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-06-01
Laboratory Number:	02-05-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	02-05-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery	
	•	Trifluorotoluene	99%	
· .		Bromofluorobenzene	98%	
References:	•	Characteristic Leaching Procedure, SW nd-Trap, SW-846, USEPA, July 1992.	-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 19170 - 19171.** 

Analyst Christin m Walter
Review



### L. A METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

•		•	
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachioroethene	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 19170 - 19171.

Analyst

Phristin m Walter



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result	Spike S Added F	Spiked Sample	Det.	Percent Recovery	SW-846 % Rec.
	(mg/L)		Result (mg/L)	Limit (mg/L)		Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.049	0.0001	98%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.050	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19170 - 19171.

Analyst L. Celeur

Misterie my Walters



### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-09-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Analyst

Misting Walter Review



### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Date Analyzed:	02-09-01
	•	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Analyst P. Coleman

Review Review



### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Date Analyzed:	02-09-01
	•	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 19170 - 19171.

Alexa C. Ceferen

Christine m Walter Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-09-01
		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.

		· · · · · · · · · · · · · · · · · · ·
OAIOO Assentance Criteria	Parameter	Darroant Bassyans
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 samples 19170 - 19171.

Men L. Office

Christeri m Walter Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool and intact	Date Analyzed:	02-09-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	

#### 2-fluorobiphenyl

97%

References:

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

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

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Ahalyst L. Cylican

Review Darles



# 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:	02-09-01
Laboratory Number:	19170 ·	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-05-01
Condition:	N/A	Date Analyzed:	02-09-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

0.1/0.0 4 4 0-14 1-	D	Mariana Difference
QA/QC Acceptance Criteria	Parameter	Maximum Difference
arta a recopiance antena		
		· · · · · · · · · · · · · · · · · · ·

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 19170 - 19171.

allen L. Coluce

Review Malters



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

Client:		QA/QC		Project #:			N/A
Sample ID:		02-06-TCM	QA/QC	Date Repor	ted:		02-07-01
Laboratory Number:		19170		Date Samp	led:		N/A
Sample Matrix:		TCLP Extra	ct	Date Recei	ved:		N/A
Analysis Requested:		TCLP Meta	ls	Date Analy	zed:		02-06-01
Condition: .		N/A		Date Extra	cted:		N/A
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.052	0.051	1.9%	0% - 30%
Barium	ND	ND	0.001	0.546	0.542	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.045	0.044	2.2%	0% - 30%
Chromium	ND	ND	0.001	0.067	0.065	3.0%	0% - 30%
Lead	ND	ND	0.001	0.079	0.08	1.3%	0% - 30%

Spike Conc. (mg/L)	: Spike Added	Sampl	e Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.052	0.550	99.6%	80% - 120%
Barium	0.500	0.546	1.04	99.4%	80% - 120%
Cadmium	0.500	0.045	0.543	99.6%	80% - 120%
Chromium	0.500	0.067	0.565	99.6%	80% - 120%
Lead	0.500	0.079	0.577	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.016	0.515	99.8%	80% - 120%
Silver	0.500	0.007	0.506	99.8%	80% - 120%

ND

0.016

0.007

ND

0.016

0.007

0.0%

0.0%

0.0%

0% - 30%

0% - 30%

0% - 30%

ND - Parameter not detected at the stated detection limit.

ND

ND

ND

ND

ND

ND

0.001

0.001

0:001

References:

Mercury

Silver

Selenium

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 19170 - 19171.

Analyst

Review Review

### CHAIN OF CUSTODY RECORD

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Client / Project Name			Project Location								MALVO	IC / DAT		DC .			•
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Sampler:			Client No.					<u>a</u>							Remarks	 ;	
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Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	Z.	Containers	<del>}</del>							-, .·· .a ·		
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District II - (505) 393-6161
P. O. Box 2.780
Hob. 1, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Protect III - (505) 334-6178
Rio Brazos Road
L. C., NM 87410
District IV - (505) 827-7131

APPROVED BY

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-13

Env. JN: 92132

DATE:

Submit Origin.
Plus I Cop
to appropriat
District Offic

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🏋	4. Generator Energy Sorvice
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site blain land
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Exumptech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Haw Mayorco
7. Location of Material (Street Address or ULSTR)	4109 E Main St.
9. Circle One:	
Generator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned.	n of origin. No waste classified hazardous by
Estimated Volume — cy Known Volume (to be entered by the open signature:  Waste Management Facility Authorized Agent TYPE OR PRINT NAME:  Harlan M. Brown  Teles  Harlan M. Brown  Teles  Title: Landfarm Management Facility Authorized Agent Type OR PRINT NAME:  Harlan M. Brown  Teles	MAR 2001 RECEIVED ON CON DIV
THE UN PRINT NAME:TELE	PRONE NO.
(This space for State Use)  APPROVED BY: TITLE: [+ec/o	9/3/ DATE: 3/08/01

TITLE:

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

District IV - (505) 827-7131

listing or testing will be approved.

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>92132</u>

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE					
1. RCRA Exempt: Non-Exempt: 🎢	4. Generator Ewergy Sorvice				
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site blain land				
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduard tech				
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Head Mayolco				
7. Location of Material (Street Address or ULSTR)	4109 E Main St. AM.				
9. Circle One:					
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommodately one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommodately or accept non-exempt.</li> </ul>					

PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by

BRIEF DESCRIPTION OF MATERIAL:

Conditional on of work by Solids 67891077

TCLD ATTACHED

REAFFIRMATION STEELS Attached

RECEIVED ON ON DIV DIST. 3

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

Estimated Volume cy Known Volume	(to be entered by the operator at the end o	of the haul) ————— cy
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown	TITLE: Landfarm Manager  TELEPHONE NO. —	DATE: 3.8.0( 505-632-0615
(This space for State Use)  APPROVED BY: Cerry	TITLE: 6-60 log 15/	DATE: 3/08/01
APPROVED BY:	TITLE:	DATE:



#### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1008 RIO BRAZOB ROAD AZTEC, NEW MEXICO 87410 [805] 334-6178 Fax [905]334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	
1 1 4 /1	2. Destination Name:
Lolletina Energy Jeunes	Envirotech Inc.
NYIOG E. Thans	Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico
Family Meris 87401	5796 US Hwy 64 Farmington, NM 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Wash Boy Same as alone	1
11 000	
Delding war	
Attech list of originating sites as appropriate 4. Source and Description of Waste	
Wosh Boy Dolos	(contempte)
( ·	
1.	
<u> </u>	
<b>γ</b> 1Λ	
(Print Name)	representative for:
Salletinos Energy Sources	do hereby certify that.
	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Naste Is: (Check appropriate classification)
	PT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
	by product identification
analysis or and that nothing has been added to the exempt or not	by product identification
and that nothing has been added to the exempt or not	by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
and that nothing has been added to the exempt or not  For NON-EXEMPT waste the following documenta MSDS Information	by product identification  n-exempt non-hazardous waste defined above.
and that nothing has been added to the exempt or not	by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
and that nothing has been added to the exempt or not For NON-EXEMPT waste the following documenta MSDS Information  RCRA Hazardous Waste Analysis	by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	by product identification  n-exempt non-hazardous waste defined above.  Lion is attached (check appropriate items):  Other (description):
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of N	by product identification  n-exempt non-hazardous waste defined above.  Lion is attached (check appropriate items):  Other (description):
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of No.	by product identification  n-exempt non-hazardous waste defined above.  Lion is attached (check appropriate items):  Other (description):
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of N	by product identification  n-exempt non-hazardous waste defined above.  Lion is attached (check appropriate items):  Other (description):
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of No.	by product identification  n-exempt non-hazardous waste defined above.  Lion is attached (check appropriate items):  Other (description):
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of No.	by product identification  n-exempt non-hazardous waste defined above.  lion is attached (check appropriate items):  Other (description):



#### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCLP

Printed Name

Title / Agency

Address

Signature

Date

e Dan A

Day Hoose

Manter Dupu

Doug Hosp

### ENVIROTECH LABS

### SUSPECTED HAZARDOUS WASTE ANALYSIS

92132-001

02-07-01

02-02-01

02-02-01

02-05-01

8497

Halliburton Energy Services Client: Project #: Wash Bay Solids Sample ID: Date Reported: Lab ID#: 19170 Date Sampled: Date Received: Sample Matrix: Sludge Preservative: Cool Date Analyzed: Condition: Cool and Intact Chain of Custody:

Parameter

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 8.20

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

**CORROSIVITY:** 

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

4109 E. Main St.

Analyst

Printer m Walter



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

•	•		
Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-06-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	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 Cr	iteria	Parameter	Percent Recovery
:		Trifluorotoluene	98%
•		Bromofluorobenzene	99%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

4109 E. Main St.

Analyst C. Ogenne

Misting Walter Review



### EPA METHOD 8040 PHENOLS

			•
Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool <sup>-</sup>	Date Analyzed:	02-09-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

4109 E. Main St.

Analyst

Mister m Walters
Review

505 a



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

Services Project #: 92132-001	
Date Reported: 02-09-01	
Date Sampled: 02-02-01	
Date Received: 02-02-01	
Date Extracted: 02-05-01	
Date Analyzed: 02-09-01	
Analysis Requested: TCLP	
,	Date Reported:       02-09-01         Date Sampled:       02-02-01         Date Received:       02-02-01         Date Extracted:       02-05-01         Date Analyzed:       02-09-01

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.

	<u> </u>		4			
	ceptance Criteria	D.	aramotor	-	Parcent Par	covery
WANGC AC		Ę	aranneter		Fercent Rec	
<del></del>						
•	and the second s			•		

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:

4109 E. Main St.

Deur L. aferre

Phristing Salters



#### **EPA METHOD 1311 TOXICITY CHARACTERISTIC** LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-07-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Analyzed:	02-06-01
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.052	0.001	5.0
Barium	0.546	0.001	100
Cadmium	0.045	0:001	1.0
Chromium	0.067	0.001	5.0
Lead	0.079	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.016	0.001	1.0
Silver	0.007	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4109 E. Main St.

Misting Walters Review



### QUALITY ASSURANCE / QUALITY CONTROL

#### **DOCUMENTATION**



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-06-01
Laboratory Number:	02-06-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample 19170 - 19171.

Alexander L. Oglander

Misting Walles
Review



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

	•	The state of the s	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-06-01
Laboratory Number:	02-05-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	02-05-01
•	•	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/ <b>L)</b>
VC Oblania	ND	0.0004	0.0
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5
			•

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	

Trifluorotoluene Bromofluorobenzene 99% 98%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample 19170 - 19171.

Analyst L. Coffee

Review Walter



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

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

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19170 - 19171.

Allen L. Cen

Review



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

Client:

Sample ID:

Laboratory Number:

Sample Matrix: Analysis Requested:

Condition:

QA/QC

Matrix Spike

19170

**TCLP Extract** 

TCLP N/A Project #:

Date Reported:

N/A 02-06-01 N/A

Date Sampled:

N/A

N/A

Date Received: Date Analyzed:

02-06-01

Date	Extracted:	

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.049	0.0001	98%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.050	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19170 - 19171.

Analyst

Review



# EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-09-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

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 19170 - 19171.

Analyst P. Queen

Mristin m Walter
Review



### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	Ñ/A
Sample Matrix:	TCLP Extract	Date Received:	N/A <sup>:</sup>
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Date Analyzed:	02-09-01
4	**	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
1		
	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 19170 - 19171.

Alen C. Geen

Review

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### EPA METHOD 8040 PHENOLS Quality Assurance Report

QA/QC Client: Project #: N/A Sample ID: Matrix Duplicate Date Reported: 02-09-01 Laboratory Number: 19170 Date Sampled: N/A TCLP Extract Sample Matrix: Date Received: N/A Preservative: Cool Date Extracted: 02-05-01 Condition: Cool & Intact Date Analyzed: 02-09-01 Analysis Requested: **TCLP** 

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria: Parameter Maximum Difference

8040 Compounds

30.0%

References:

Method 1311, Toxicity 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 19170 - 19171.

alle Legeen

/ historiem Walter



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-09-01
		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 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
1 .		

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 samples 19170 - 19171.

Men L. aferra

Ahristen m Walter



# 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:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool and Intact	Date Analyzed:	02-09-01
		Analysis Reguested	TOLD

		Det.	Regulatory
Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
Pyridine	N <b>D</b>	0.020	<b>5</b> 0
Hexachloroethane	ND	0.020	5.0 3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND ·	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		2-fluorobiphenyl	97%	
References:		Characteristic Leaching Procedure, S	•	
		natics and Cyclic Ketones, SW-846,		

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

QA/QC for samples 19170 - 19171.

Men L. Oferica

Note:

Comments:

Mister M Walter Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-05-01
Condition:	N/A	Date Analyzed:	02-09-01
	•	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/Q	C Acceptance C	riteria	Parameter		Maximum Difference	
			8090 Compo	unds	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 19170 - 19171.

Alen L. aferen

(Review M Laster



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

Client: QA/QC Project #: N/A Sample ID: 02-06-TCM QA/QC Date Reported: 02-07-01 Laboratory Number: 19170 Date Sampled: N/A Sample Matrix: **TCLP Extract** Date Received: N/A Analysis Requested: **TCLP Metals** Date Analyzed: 02-06-01 Condition: N/A Date Extracted: N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.052	0.051	1.9%	0% <b>-</b> 30%
Barium	ND	ND	0.001	0.546	0.542	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.045	0.044	2.2%	0% - 30%
Chromium	ND	ND	0.001	0.067	0.065	3.0%	0% - 30%
Lead	ND	ND	0.001	0.079	0.08	1.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%
Silver	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%

Spike	Spike	Sampl	The state of the s		Acceptance
Conc. (mg/L)	Added.	Alexandra (Company)	Sample	Recovery	Range
Arsenic	0.500	0.052	0.550	99.6%	80% - 120%
Barium	0.500	0.546	1.04	99.4%	80% - 120%
Cadmium	0.500	0.045	0.543	99.6%	80% - 120%
Chromium	0.500	0.067	0.565	99.6%	80% - 120%
Lead	0.500	0.079	0.577	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.016	0.515	99.8%	80% - 120%
Silver	0.500	0.007	0.506	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxic

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 19170 - 19171.

Analyst Coleman

Review

Client / Project Name Hace DBurges	U ENER	.64 =5	Project Location 409 E. Main St.				ANALYSIS / F				IS / PAR	RAMETERS					
Sampler:			Client No.	_ X		No. of Containers	44 A							Remarks			
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		Cont	10/3									
Wash BAT SOLDDS	02.02.0	14:00	19170		July	2	1_	/									
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`					(505)								Cool -	· ice/Biue	Ice /		. ]

District I - (505) 393-6161
P. O. Box 1989
Hobbs, NM 68241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
P'-trict III - (505) 334-6178

Rio Brazos Road
C., NM 87410

District IV - (505) 827-7131

APPROVED BY:

#### New Mexico

医位置性性畸形性 医拉克斯氏 医甲基氏性

Energy Minerals and Natural Resources Department

Oil Conservation Division

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

End 2001 Audit. 4/12/01 Submit Origin.
Plus I Cop
to appropriat

Form C-13

Originated 8/8/9

BARRY TO BERTHALL

Env. JN: 98059-008

ر مين در در در در در در در در در در در در در	
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Compression
Verbal Approval Received: Yes No 🗵	5. Originating Site Newberry LS 5
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Huscerenas
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Marico
7. Location of Material (Street Address or ULSTR)	"H" SeeS T 31N R12W STC N
9. Circle One:	
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Soil Contoninated with New Person MAR 2001  MAR 2001  MAR 2001  MECEIVED  OR CON. DIV  OR CON. DIV  DIST. 3  Cy Known Volume (to be entered by the open	MAR 2001 BECEIVED 55 DAT 3
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: 3.02.0(
APPROVED BY: Leny De Zeny TITLE: Geolag	DATE: 3/08/01

Charles Busan Charles DATE: 3/19/01

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

District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Form C-138 Originated 8/8/95

> Submit Origina Plus I Cop to appropriate District Office

Env. JN:

98059 - 008

1.	RCRA Exempt: Non-Exempt: 🔀	4. Generator Compression			
	Verbal Approval Received: Yes No 🔀	5. Originating Site Newberry LS 5			
2.	Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Huscerenas			
3.	Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State N and Herrico			
<b>'</b> .	Location of Material (Street Address or ULSTR)	"H" See5 T 3(N RIZW STON			
),	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 MA		HAL
-------------------------	--	-----

Soil contominated with New Pegasus 808 Lube Oil

MSDS ATTACHED



	ECESTICAL STATES					
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul)						
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown	TITLE: Landfarm Manager  TELEPHONE NO.	DATE: <u></u>				
(This space for State Use)  APPROVED BY: Dony J. Temp	TITLE: Geologist	DATE: 3/08/01				
APPROVED BY:	TITI F	DATE: \				



#### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (808) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

· · · · ·	•
1. Generator Name and Address: UNIVERSAL COMPRESSION 3440 MORNING STAR DR. FMT	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico
Attach list of originating sites as appropriate  4. Source and Description of Waste	) NMPM LSE# SF -078146
OFORUS YEAUSE  (Print Name)  UNDUSKIAL COMMESSION  according to the Resource Conservation and Recover	representative for:  do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	
This waste is in compliance with Regulated Levels of No. 20 NMAC 3.1 subpart 1403.C and D	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	
Title: AREA SCASEVISCR	· · · · · · · · · · · · · · · · · · ·
sta: 03 01 01	

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance

with OSHA 29 CFR 1910.1200 and determined not to be hazardous. EFFECTS OF OVEREXFOSURE: No significant effects expected. EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. NA

4. FIRST AID MEASURES

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

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INCESTION: Not expected to be a problem when ingested. If

uncomfortable seek medical assistance.

#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause fromhing. 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, sawers, 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): 245(473) (ASTM D-92). Flammable limits - LEL: NE, UEL: NE. NFPA HAZARD 10: Health: 0, Flammability: 1, Reactivity: 0 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.

#### 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 notity CHEMTREC (600) 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: Light Amber

ODOR: Marketable

ODOR THRESHOLD-ppm: NE

DH: NA

BOILING POINT C(F): NE

MELTING POINT C(F): NA

FLASH POINT C(F): 245(473) (ASTM D-92)

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: NE

VISCOSITY AT 40 C, cst: 130.0

VISCOSITY AT 100 C, cst: 13.5

POUR POINT C(F): -12(10)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

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. Fossibly

hydrocarbon fragments. Sulfur oxides and compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

#### 11. TOXICOLOGICAL DATA

---ACUTE TOX1COLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000

mg/kg). --- Based on testing of similar products and/or the

components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than

2000 mg/kg). --- Based on testing of similar products and/or the

components.

INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.

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

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

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)--The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

#### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

#### 13, DISPOSAL CONSIDERATIONS

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

#### 14. TRANSPORT INFORMATION

may be regulated.

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

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

#### 15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL. AU Labeling: Symbol: \* EU labeling not required.. Risk Phrase(s): R. ΝÀ Safety Phrase(s): Not applicable. U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chemicals reportable under SARA (313) toxic release program. The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS ----XYLENES (0.03%) 1330-20-7 22 ZINC (ELEMENTAL ANALYSIS) (<0.04%) 7440-66-6 22 PHOSPHORODITHOIC ACID, O,O.DI 68649-42-3 2.2 C1-14-ALKYL ESTERS, ZINC SALTS (2: 1) (ZDDP) (0.33%) --- REGULATORY LISTS SEARCHED ---

l=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 24=NJ RTK 25=PA RTK SENTP SUS 10=OSHA 2 15=TSCA 12b 20=IL RTK 26=RI RTK

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

#### 16. OTHER INFORMATION

USE: ENGINE LUBRICANT

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: 0\* 0\* NA 1\* 1\*, MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAFE USE: L EHS Approval Date: 21AUGZ000

\* Legally required information is given in accordance with applicable Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or retransmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas

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District II - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Pi-trict III - (505) 334-6178
Rio Brazos Road
A. C., NM 87410

District IV - (505) 827-7131

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

STAMES TO BUILDING

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/9.

Submit Origina Plus 1 Cop to appropriat District Offic

Env. JN: 0001-001

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Dial Oil
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Ribble 200R
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter MASCERENHSTOR
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marcico.
7. Location of Material (Street Address or ULSTR)	L' Seclo, T30N R9W
9. <u>Circle One</u> :	SAN Juan
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
Spill of wour engine oil consco - EL MA  Long rum Engine oil Consco - EL MA  MSDS Attached.  FEB 2  PECEI OX CON DIST	FEB 2001 ST. S OFLOON. DIV. S
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Manager DATE: ○2·2○·○(  EPHONE NO. 505-632-0615
	DATE: 02/21/0/

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

APPROVED BY:

.

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

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

> Submit Original Plus 1 Copy to appropriate District Office

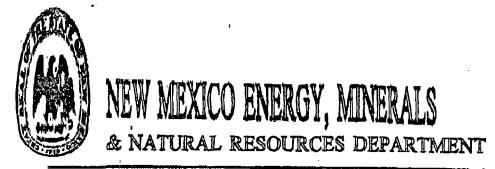
> > lle.

Env. JN: 001-001

DATE:

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REQUEST FOR APPROVAL TO ACCEPT	T SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Diacoil
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Ribbue 200R
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter MLSCERENKS TO
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marcico.
7. Location of Material (Street Address or ULSTR)	A SECIO, TBON RAW
9. Circle One:	SAN Juan
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept approval; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept provided the material is not-hazardous and the Generator's certification is listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	companied by necessary chemical analysis to on of origin. No waste classified hazardous by
Spill of wow engine oil on well local	Stion. Source is
Long van Eagine Oil Couseo- EL MA MSDS Attached.	FEB 2001 FEB
Estimated Volume 20 cy Known Volume (to be entered by the op	68732 J. S.
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEI	Manager DATE: <u>02.20.0(</u> LEPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Temy Tem TITLE: G-60/0	915 DATE: 02/21/0/

TITLE:



OIL CONSERVATION DIVISION AZTEG DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 67410 808) 334-6178 Fax (506) 334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
DIAL OIL CO.	Envirotech Soil Remediation Facility
PO 80x 430	Landarm #2
AZTEC NM B7410	Hilltop, New Mexico
3. Originating Site (name): BURLING TON COM ZOOR STUJUTU COUNTY NM	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate  A Source and Description of Waste	
4. Source and Description of Waste  SOURCE - Long TRUM EngiNE Oil  DESCRIPTION - EL MAR LA 4 EN	Tauk.
DESCRIPTION - FI MAD IAU FI	ICINE CIL
DEJORIFION LE MIRE CH PEN	WINE OIL
, Tom Hudson	representative for:
DIAL CO (Print Name)	
DIAL OIL CO.	do hereby certify that,
according to the Resource Conservation and Recov- 1988, regulatory determination, the above described	ery Act (RCRA) and Environmental Protection Agency's July,
EXEMPT oilfield waste NON-EXE analysis of	MPT oilfield waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or n	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following document  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tation is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature): Tom Hud	Son
Name (Original Signature): Tom Hud  Title: 50fety  Date: 2, 15, 01	
· · · /- ·	



# Think blg. Move fast.



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#### a material safety data is beets son

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LA4



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#### HYDROCLEAR(R) EL MAR(R) LA4 ENGINE OIL

#### # 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

HYDROCLEAR(R) El Mar(R) LA4 Engine Oil

MSDS Code: MOTC0106

Revised: 16-Mar-2000

"HYDROCLEAR" and "El Mar" are registered trademarks of Conoco. SAE: 30, 40, 15W-40

Conoco Blend Codes: 47536, 47537, 47538
Product Use: Natural Gas Engine Oil

MANUFACTURER/DISTRIBUTOR

Conoco Inc. P.O. Box 2197

Houston, TX 77252

PHONE NUMBERS

Product Information: 1-281-293-5550
Transport Emergency CHEMTREC: 1-800-424-9300 (U.S. & Canada)
1-703-527-3887 (international; call collect)
Medical Emergency: 1-800-342-5119 or 1-281-493-2767
WEB SITE: www.conoco.com

WEB SITE:

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS

CAS Number

70~95

Highly refined base oils

64742-54-7

Additives

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

#### 3. HAZARDS IDENTIFICATION

--- EMERGENCY OVERVIEW ---

APPEARANCE / ODOR

Light brown liquid / mild odor.

OSHA REGULATORY STATUS

This material is classified as nonhazardous under OSHA Regulations.

HMIS RATING

Health: 1; Flammability: 1; Reactivity: 0

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin,

eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil

mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection. "USED" Motor Oil -

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

Carcinogenicity Information

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

#### 4. FIRST AID MEASURES

#### Inhalation

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

Skin Contact

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

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

Ingestion

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

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

Notes to Physicians

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

#### # 5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point (typical) : 495 F (257 C) (Grade 30)

511 F (266 C) (Grade 40)

428 F (220 C) (Grade 15W-40)

Method

Autoignition : Not Available Flammable limits in Air, % by Volume : Undetermined LEL : Undetermined

NFPA Classification : Class IIIB Combustible Liquid.

: Health: 0 Flammability: 1 Reactivity: 0 NFPA Rating

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from

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

# 6. ACCIDENTAL RELEASE MEASURES

# Safeguards (Personnel)

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

Remove source of heat, sparks, and flame.

Initial Containment

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

Spill Clean Up

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

#### 7. HANDLING AND STORAGE

#### Handling (Personnel)

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

Handling (Physical Aspects)

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

Storage

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

#### 9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

VENTILATION

Normal shop ventilation.

Personal Protective Equipment

RESPIRATORY PROTECTION

None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES

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

'EYE PROTECTION

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

OTHER PRECAUTIONS

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

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA)

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point : Not Available : Nil

Vapor Pressure

Vapor Density : >1 (Air=1.0) % Volatiles iNLL Evaporation Rate Solubility in Water : Insoluble Odor : Mild. Form : Liquid. Color Color : Brown (light).
Specific Gravity : 0.86-0.89 @ 60 F (16 C) 10. STABILITY AND REACTIVITY Chemical Stability Stable. Conditions to Avoid Heat, sparks, and flames. Incompatibility with Other Materials Incompatible or can react with oxidizers. Decomposition Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide. Polymerization Polymerization will not occur. 11. TOXICOLOGICAL INFORMATION Animal Data Mouse skin painting studies have shown that highly refined petroleum lube base oils similar to ingredients in this product have not caused skin tumors. "USED" Motor Oil -Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications. 12. ECOLOGICAL INFORMATION Ecotoxicological Information No specific aquatic data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. Container Disposal Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner. 14. TRANSPORTATION INFORMATION Shipping Information DOT: Not regulated. ICAO/IMO: Not restricted. 15. REGULATORY INFORMATION U.S. Federal Regulations OSHA HAZARD DETERMINATION

This material is not known to be hazardous as defined by OSHA's

Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

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

# SARA, TITLE III, 302/304

Extremely Hazardous Substance: None

SARA, TITLE III, 311/312

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

Pressure : No SARA, TITLE III, 313

Toxic Chemicals: None.

#### TSCA

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

#### RCRA

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

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

Ingredient

: Petroleum Hydrocarbons.

Reportable Quantity

: Film or sheen upon or discoloration of

any water surface.

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

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

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT
This material is not known to contain any ingredients subject to the
Act. Nonhazardous ingredient information is withheld as a trade
secret in accordance with Section 11 of the Act.

Canadian Regulations
This is not a WHMIS Controlled Product.

#### # 16. OTHER INFORMATION

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

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: MSDS Coordinator

Address :

: Conoco Inc.

>

: PO Box 2197

>

: Houston, TX 77252

Telephone

: 1-281-293-5550

# Indicates updated section.

End of MSDS

Page 6 of 6

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http://www.conoco.c../find.asp?q1=LA4&wordno=1&pstr=LA4%7E&number=51MOTC010 2/15/01

District : - (505) 393-6161 7. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178 Rio Brazos Road ~\_c, NM 87410

District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

Env. JN: 97057-036

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: \( \square\)	4. Generator EPFS
Verbal Approval Received: Yes 🔲 No 🔲	5. Originating Site S. Flore pit
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Hoxico
7. Location of Material (Street Address or ULSTR)	Sec 21, TZGN, R(ZW) 5AN Junionuly 14.
9. <u>Circle One</u> :	J
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompressed the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:  petroleum by drocarbon contourinate  TCCP Metals Attackd.	FEB 2001 RECEIVED CLOCK, DAY DIST. 3
SIGNATURE: Handfarm M  Waste Management FacilityAuthorized Agent  TITLE: Landfarm M	<u> </u>
1 / / / /	05/5/ DATE: 2/19/01 109/5+ DATE: 2/19/01 30

# **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:					
FID FILLS : G						
El Paso Field Services Co.  Envirotech Soil Remediation Facility  Land Services 42						
614 Reilly Avenue	Landfarm #2					
Farmington, NM 87401	Hilltop, New Mexico					
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):					
Bisti Number 1 Flare Pit						
Sec. 21, T26N, R12W						
San Juan County, NM  Attach list of originating sites as appropriate						
Source and Description of Waste						
· ·	The Diagram					
Soil with hydrocarbons and water from for	mer Flare Pit					
ı,Scott Pope	representative for:					
(Print Name)						
ELD						
El Paso Field Services						
according to the Resource Conservation and Reco	overy Act (RCRA) and Environmental Protection Agency's July,					
	d waste is. (Check appropriate classification)					
	N-EXEMPT oilfield waste which is non-hazardous by					
cha	racteristic analysis or by product identification					
and that nothing has been added to the exempt or	non-hazardous waste defined above.					
and that he many has been added to the exempt of her hazardeds waste defined above.						
For NON-EXEMPT waste only, the following docur	mentation is attached (check appropriate items):					
MSDS Information	Other (description)					
RCRA Hazardous Waste An						
Chain of Custody						
Name (Original Signature):	· · · · · · · · · · · · · · · · · · ·					
Title: Senior Env	vironmental Scientist					
, ,						
Date: 2//3/01						



#### NAVAJO NATION ENVIRONMENTAL PROTECTION AGENCY P.O. Box 339

Window Rock, Arizona 86515 (520) 871-7692



Kelsey A Begaye
PRESIDENT

Taylor McKenzie, M.D. VICE-PRESIDENT

Certified Mail #7099 3220 0004 3409 1274 January 12, 2001

Mr. Scott T. Pope El Paso Energy Corporation 614 Reilly Avenue Farmington, New Mexico 87401

Dear Mr. Pope:

As discussed in the meeting at the Farmington BLM office on January 10, 2001 with you, representatives from Hydrologic Consultants, Inc., Mr. Jim Walker (Environmental Engineer of US EPA, and Mr. Bill Freeman (Hydrologist II of NNEPA/UIC Shiprock Office), you may proceed with excavation of the Bisti Flare Pit #1 site as outlined in your letter, dated October 17, 2000 (copy attached). Please notify Mr. Freeman prior to your commencing operations.

This excavation and any remediation work at Bisti Flare Pit #1 must be done in compliance with the "Unlined Surface Impoundment Closure Guidelines" issued by the BLM - Farmington and Albuquerque Districts in December, 1993.

If you have any questions you may contact Bill Freeman at (505) 368-1040 or Jim Walker at (505) 599-6317.

Sincerely,

S. Deb Misra, P.E., Director

S. Deb Misma

Surface and Ground Water Protection Department Navajo Nation Environmental Protection Agency

cc: NNEPA/UIC File, Shiprock, NM

Mr. Jim Walker, US EPA, Farmington, NM

Mr. Ephraim Leon-Guerrero, US EPA, San Francisco, CA



Certified Mail # 7099 3400 0018 9756 8505

October 17, 2000

Charmaine Hosteen Navajo Environmental Protection Agency P.O. Box 1979 Shiprock, New Mexico 87420

FILE COPY

RE: Scope of Work for the Removal of Hydrocarbon Impacted Soil at the Bisti #1 Former Flare Pit Site

Dear Ms. Hosteen:

El Paso Field Services (EPFS) hereby requests approval of the following Scope of Work for the excavation of contaminated soils at the above-mentioned site. As discussed in the March 2000 "Annual Report Bisti Flare Pit #1", EPFS has been evaluating excavation of the remaining contaminated soils versus additional in situ treatment. The use of in situ bioremediation technologies has reduced hydrocarbon contamination dramatically. however, concentrations still remain above clean-up standards. EPFS has concluded it would be faster and possibly more cost effective to excavate the core contamination remaining in the pit than continue with in situ treatment.

#### SCOPE OF WORK

EPFS proposes to excavate 20 feet outside the berms on the north and south sides of the former flare pit. Based on work completed in the past a sandstone shelf exists to the east and the contamination pinches out the west. The proposed excavation dimensions of the former flare pit will be approximately 90' x 90' x 18' compared to the current 90' x 50' x 8'. All excavated contaminated soils will be transported by truck to Envirotech's landfarm for disposal. It is estimated the excavation will extend approximately 2 feet into saturated zone. Provisions will be made to collect and properly dispose of any liquids that may accumulate in the excavation.

Once excavation is complete EPFS intends to collect 2 composite samples to evaluate the soil quality of the excavation floor and walls. These samples will be analyzed for BTEX and TPH by methods 8021 and 8015 modified.

EPFS feels once the majority of the source material has been removed groundwater contaminate levels will begin to decline at a much faster rate. Also excavating, backfilling and capping the pit area will remove a potential groundwater recharge source Page 2
Ms. Charmaine Hosteen
Navajo Environmental Protection Agency



area. Water received at the surface will no longer have a preferential pathway for migration through source material to groundwater.

The contractor chosen for the project will generate a short letter report. This report will detail on site activities, number of cubic yards trucked to the landfarm for disposal, number of cubic yards of clean back fill received at the site, number of cubic yards of overburden excavated, sample collection points and sample results. The Navajo Environmental Protection Agency will be notified 72 hours prior to any site activities.

Please notify EPFS of approval of the proposed Scope of Work with in 30 days of receipt of this letter. EPFS estimates it will take approximately 30 additional days once the Scope of Work is approved to solicit bids and schedule the work.

If you have any questions or require additional information please call me at 599-2124.

Sincerely,

Scott T. Pope P.G.

Senior Environmental Scientist

Environmental Remediation Department

cc: James Walker – USEPA Region IX – Certified Mail # 7099 3400 0018 9756 8512



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	E.P.F.S.	Project #:	97057-036
Sample ID:	5 Pt. Comp.	Date Reported:	02.16-01
Laboratory Number:	19197	Date Sampled:	02-14-01
Chain of Custody:	8507	Date Received:	02-14-01
Sample Matrix:	TCLP Extract	Date Analyzed:	02-16-01
Preservative:	Cool	Date Extracted:	02-15-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ND	0.001	5.0
0.553	0.001	100
ND	0.001	1.0
0.022	0.001	5.0
0.017	0.001	5.0
ND	0.001	0.2
ND	0.001	1.0
ND	0.001	5.0
	(mg/L)  ND 0.553 ND 0.022 0.017 ND ND	Concentration (mg/L)         Limit (mg/L)           ND         0.001           0.553         0.001           ND         0.001           0.022         0.001           0.017         0.001           ND         0.001           ND         0.001           ND         0.001           ND         0.001           ND         0.001

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 South Flora Pit.

Analyst

(Review Moster



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

Client:	QA/QC	Project #:	N/A		
Sample ID:	02-16-TCM QA/QC	-16-TCM QA/QC Date Reported:		02-16-TCM QA/QC Date Reported:	
Laboratory Number:	19197	Date Sampled:	N/A		
Sample Matrix:	TCLP Extract	Date Received:	N/A		
Analysis Requested:	TCLP Metals	Date Analyzed:	02-16-01		
Condition:	N/A	Date Extracted:	N/A		

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.553	0.555	0.4%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
ead	ND	ND	0.001	0.017	0.017	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.500	ND	0.499	99.8%	80% - 120%
Barium	0.500	0.553	1.05	99.7%	80% - 120%
Cadmium	0.500	ND	0.498	99.6%	80% - 120%
Chromium	0.500	0.022	0.520	99.6%	80% - 120%
Lead	0.500	0.017	0.516	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.497	99.4%	80% - 120%
Silver	0.500	ND	0.498	99.6%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 19197.

Analyst

Reviev

# CHAIN OF CUSTODY RECORD

08507

Client / Project Name			Project Location		~	ANALYSIS / PARAMETERS									· · · · · · · · · · · · · · · · · · ·	
EPES			Chaco SouthFlore Pit													
Sampler: HARLAW M.	Brow	W	Client No. 97057-036		7-036		No. of Containers  TCLA						Re	emarks	3	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix		Cont	الم عز									
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				5796 U Farmington	_	-					•	Rece	eived Intact	_	_	
			Farmington, New M (505) 632-0				∪, <del>-</del> ∪ i					Cool -	Ice/Blue Ice	_		

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

District IV - (505) 827-7131

ريد, NM 87410

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Submit Original
Plus 1 Copy
to appropriate
Discrict Office

Env. JN: <u>92102</u>

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REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Tempt 4. 4. 01	4. Generator Robert L Buyless
Verbal Approval Received: Yes 🗹 No 🔲	5. Originating Site Will 16-9
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Bayuess
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State How Waxico
7. Location of Material (Street Address or ULSTR)	SWSW Sec 22, TZGN, RIBW
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommended on a continuous continuous continuous accept non-exempt wastes must be accomproved to accept non-exempt wastes must be accomproved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	mpanied by necessary chemical analysis to not origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Estimated Volume	APR 2001  APR 20
SIGNATURE: Handfarm Ma Waste Management Facility Authorized Agent	DAI C.
TYPE OR PRINT NAME: Harlan M. Brown TELE	EPHONE NO
(This space for State Use)	·
APPROVED BY: Demy Jeant TITLE: Ceolo	G15/ DATE: 4/05/01
APPROVED BY: Charle There TITLE: Field Ke	DATE: 4/05/01



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTED DISTRICT OFFICE 1000 RIO BRAZOS HOAD AZTEC. NEW MEXICO B7410 (606) 334-8178 FER (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# CERTIFICATE OF WASTE STATUS

		•	
R.L. BA	PLESS	1	2. Destination Name: Envirotech Soil Remediation Facility
FAR MI	NG TOL	NM 87499	Landarm #2 Hilltop, New Mexico
3. Originati	201	RAL U-9 WELL	Location of the Waste (Street address &/or ULSTR):
-W54	> 5.60%	WITY, NM	3 W
Attach lis	t of originati	ng sites as appropriate	<u> </u>
4. Source a	nd Descrip	tion of Waste	
or so	AKED	50/2	
		•	
100	m	ELS (Print Name)	
<u> </u>	~ //	(Print Name)	representative for:
E. C.	BATL	<u> </u>	do hereby cartify that
ecording to	the Resou	irce Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's Jul
988, regula	tory deterr	nination, the above described	waste is: (Check appropriate classification)
K EXEMP	<b>r</b> oilfield v	· · · · · · · · · · · · · · · · · · ·	APT oilfield waste which is non-hazardous by characteristic by product identification
nd that noti	ing has be	en added to the exempt or no	n-exempt non-hazardous waste defined above.
or NON-E	CEMPT w	aste the following documenta	ition is attached (check appropriate items):
·	MSD\$	Information	Other (description):
<u>.</u> ļ		Hazardous Waste Analysis of Custody	
i i			
		nce with Regulated Levels of N rt 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuan
ame (Origi	nal Signa	ture):	
itle: E	GINE	A	
ate:	2/1/	6)	
TIS Hid	hway 6	4 • Farmington, NM 87	401 • Tel 505 • 632 • 0615 • Fax 505 • 632

6911

Navajo Tribal Well 16-9

# Robert L. Bayless, Producer LLC Oil & Gas Producer

P. O. Box 168
Farmington, New Mexico 87499

FAX NO. (505) 326-6911 OFFICE NO. (505) 326-2639

Certified Mail

February 9, 2001

Mr. Fitzgerald Cadman Navajo Tribal EPA NPDS Program PO Box 339 Window Rock, AZ 86515

RE: Tocito Dome Oil Spill

Dear Mr. Cadman,

As we have discussed on the telephone, this letter is to inform you that Bayless plans to move approximately 6 cubic yards of oil stained soil from our Tocito Dome oil field to Envirotech's land farm. A third party roustabout company will haul the soil. This work will be scheduled after receipt of necessary regulatory approvals.

Sincerely.

Tom McCarthy Petroleum Engineer

92102

#### SENDER: COMPLETE THIS SECTION: Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. Agent Agent Attach this card to the back of the mailpiece, ☐ Address or on the front if space permits. D. Is delivery address different from Item 1? 1. Article Addressed to: INES enter delivery address below: Mh Fitzgerald Cadman Navajo Tribal EPA NPDS Program PO BOX 339 3. Service Type Window Rock, Az 8695 Certified Mail Registered ☐ Express Mail Return Receipt for Merchandise Insured Mail 4. Restricted Delivery? (Extra Fee) ☐ Yes 2. Article Number (Copy from service label) 1000

Domestic Return Receipt

PS Form 3811, July 1999

Unit	TED STATES POSTAL SERVICE	1 TO TO	First-Class Ma Postage & Fer USPS Permit No. G-	≘s Pald
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Dir (rict I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 92142

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	REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRAE		4. Generator PESCO
Verbal A	pproval Received: Yes No No	5. Originating Site MF-4 4Jell.
2. Manager	nent Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PESCO
3. Address	of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Marico
7. Location	of Material (Street Address or ULSTR)	NW SEC, 18, T3(N, R9W)
9. <u>Circle Or</u>	) <b>e</b> :	one out a country
Gen B. All re PRO listin	equests for approval to accept oilfield exempt wastes will be acceptator; one certificate per job.  equests for approval to accept non-exempt wastes must be accepted the material is not-hazardous and the Generator's certification of the sting will be approved.  exters must certify the wastes delivered are only those consigned.	empanied by necessary chemical analysis to n of origin. No waste classified hazardous by
	CRIPTION OF MATERIAL:	
·	lycol & lube oil up set @ a die	FEB 2001 PECEIVED ON DIST. ST. ST. ST. ST. ST. ST. ST. ST. ST.
Estimated Volu	rme cy Known Volume (to be entered by the ope	rator at the end of the haul) ————————————————————————————————————
SIGNATURE	Waste Management Facility Authorized Agent Harlan M. Brown TELI	DATE: <u>の</u> 2~07-0/ EPHONE NO. 505-632-0615
APPROVED		



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

PO# 4174-T 1. Generator Name and Address: 2. Destination Name: Envirotech Soil Remediation Facility HESCO 5680 US HWY 64 Landarm #2 Farmington, Du 87401 Hilltop, New Mexico 3. Originating Site (name): Location of the Waste (Street address &/or ULSTR): MF 4 NW Sec B, T31N, R9W
SAW Jean Comby, Ney
Attach list of originating sites as appropriate 4. Source and Description of Waste 80% glycal & Tube oil on soil; back up through fill spoul. Process Equipment & Service Co. representative for: 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) X 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): Other (description): **MSDS** Information RCRA Hazardous Waste Analysis Chain of Custody This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature): Title: Field Tech. Date: <u>5.6-01</u>

District I ~ (505) 393-6161 P. 4. 80x k\$80 Hobes, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Protect III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Env. JN: 97057-

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

NEGOEST FOR AFFROYAL TO ACCEPT	SOLID WAS IE
1. RCRA Exempt: Non-Exempt: 2.2.01	4. Generator EPFS
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Surical 100 60
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter IHT
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State D and Hapico
7. Location of Material (Street Address or ULSTR)	Sec 3, TZ9N, RIBW San Juan Co
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Soil contaminated of Hydrocarbon  Estimated Volume	FEB 2001 PECEIVED OIL CON. DIV
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 02.02.0(
APPROVED BY: Yemy 2. Fam TITLE: Geoles	
APPROVED BY: Jamy 2. tamy TITLE: Geolog	DATE: 02/12/0/

Down Foust 02-02-01 9:05

# **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:			
El Paso Field Services Co.	Envirotech Soil Remediation Facility			
614 Reilly Avenue	Landfarm #2			
Farmington, NM 87401	Hilltop, New Mexico			
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):			
Sunical #10D gas well	Section 3, T29N, R13W, San Juan Co., NM			
Attach list of originating sites as appropriate				
Source and Description of Waste				
Soils contaminated with hydrocarbons and produce	ed water			
•				
ı, David Bays	representative for:			
(Print Name)				
El Paso Field Services	Co. do hereby certify that,			
	very Act (RCRA) and Environmental Protection Agency's July,			
	NON-EXEMPT oilfield waste which is non-hazardous by			
X EXEMPT Oilfield waste	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 docur	nentation is attached (check appropriate items):			
MSDS Information Other (description)  RCRA Hazardous Waste Analysis Chain of Custody				
RCRA Hazardous Waste Analys	· · · · · · · · · · · · · · · · · · ·			
RCRA Hazardous Waste Analys	· · · · · · · · · · · · · · · · · · ·			
RCRA Hazardous Waste Analys Chain of Custody  Name (Original Signature):				

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 38241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Project III - (505) 334-6178
Rio Brazos Road
C, NM 87410
District IV - (505) 827-7131

# New Mexico Energy vunerals and Natural Resources Department Oil Conservation Division

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Env. JN: 97057

Form C-138 Originated 8/8/9

Submit Origina
Plus I Cop
to appropriat
District Office

1. RCRA Exempt: Non-Exempt:	4. Generator EPFS
Verbal Approval Received: Yes No 🔎	5. Originating Site Hart Composite (
2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2	6. Transporter PSC.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Marcico
7. Location of Material (Street Address or ULSTR)	NEUSec 29, T31N, RIOW SAN Juan County DK.
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be ac Generator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accept.	

PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Soil contonincted w/ wed lub FEB 2001 OKLOOM, DAV DIST. 3 cy Known Volume (to be entered by the operator at the end of the haul) TITLE: Landfarm Manager DATE: 1-29-01 Waste Management FacilityAuthorized Agent 505-632-0615 Harlan M. Brown TYPE OR PRINT NAME: TELEPHONE NO.

(This space for State Use)

APPROVED BY: Ferry Kerry

TITLE: Geologist

APPROVED BY: / bothyn Jhrl

TITLE: Environmit Geologis)

DATE: 02/07/01

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

(This space for State Use)

APPROVED BY:

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

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REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator EPFS
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hart Congress
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PSC.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Marcico
7. Location of Material (Street Address or ULSTR)	NE450c 29, T31N, RIOW SAN Juan County NH.
9. <u>Circle One</u> :	<del></del>
Generator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accepted. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigner.	on of origin. No waste classified hazardous b
BRIEF DESCRIPTION OF MATERIAL:	
Soil contaminated w/ used lube a	ાં (
	JAN 2001 45 00 000 000 000 000 000 000 000 000 0
Estimated Volume — 9 drims cy Known Volume (to be entered by the op	JAN 2001  DAT. 3  Perator at the end of the haul)  Cy
Estimated Volume   9 drums cy Known Volume (to be entered by the op  SIGNATURE: Harland Brown  Waste Management Facility Authorized Agent	JAN 2001  Secretary of the haul) ————————————————————————————————————

TITLE:

DATE:

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Laudfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Hart Canyon #1 Compressor Station	NE/4 of Sec. 29, T-31-N, R-10-W, Sen Juan County, New Mexico
Attach list of originating sites as appropriate 4. Source and Description of Waste	
Soil contaminated with used lubricating oil	
David Bays	representative for:
(Print Name)	
El Pago Eleld Saminas	Co do hassing application
El Paso Field Services of according to the Resource Conservation and Recovered regulatory determination, the above described	very Act (RCRA) and Environmental Protection Agency's July,
	NON-EXEMPT ollfield waste which is non-hazardous by characteristic analysis or by product identification
and that nothing has been added to the exempt or n	non-hazardous waste defined above.
For NON-EXEMPT waste only, the following docum	entation is attached (check appropriate items):
MSDS Information  X RCRA Hazardous Wasta Analysi Chain of Custody	Other (description)
Name (Original Signature):	J Baya
Title: Principal En	sylronmental Scientist
Date: January 5, 2	2001



December 14, 2000

Mr. Allen Gill El Paso Field Service 614 Reilly Ave Farmington, NM 87401

Phone: (505) 325-2841

Project No.: 97057 Job No.: 705732

Dear Mr. Gill:

Enclosed are the analytical results for one soil sample collected from the location designated as "Hart #1 Comp. Station". One soil sample was collected by El Paso Field Service designated personnel on 12/04/00, and received by the Envirotech laboratory on 12/05/00 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 9166 and assigned Laboratory No. 18931 (Lube Oil Upset) for tracking purposes. The sample was analyzed 12/06/00 through 12/13/00 using USEPA or equivalent methods.

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

Respectfully submitted, Envirotech, Inc.

Christine M. Walters

Laboratory Coordinator / Environmental Scientist

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enc.

CMW/cmw

C:/files/labreports/EPFS.wpd



#### **SUSPECTED HAZARDOUS WASTE ANALYSIS**

	,*		
Client:	EPFS	Project #:	705732
Sample ID:	Lube Oil Upset	Date Reported:	12-12-00
Lab ID#:	18931	Date Sampled:	12-04-00
Sample Matrix:	Soil	Date Received:	12-05-00
Preservative:	Cool	Date Analyzed:	12-06-00
Condition:	Cool and Intact	Chain of Custody:	9166

**Parameter** 

Result

**IGNITABILITY:** 

**Negative** 

**CORROSIVITY:** 

Negative

pH = 7.42

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:

Hart #1 Comp. Station. Composite Sample 9 Drums.



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

Client:	EPFS	Proiect #:	705732
Sample ID:	Lube Oil Upset	Date Reported:	12-12-00
Laboratory Number:	18931	Date Sampled:	12-04-00
Chain of Custody:	9166	Date Received:	12-05-00
Sample Matrix:	TCLP Extract	Date Extracted:	12-06-00
Preservative:	Cool	Date Analyzed:	12-12-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)		Regulatory Limits (mg/L.)
			•	
Vinyl Chloride	ND	0.0001		0.2:
1,1-Dichloroethene	ND	0.0001		0.7
2-Butanone (MEK)	0.0245	0.0001		200
Chloroform	ND	0.0001	·	6.0
Carbon Tetrachloride	ND	0.0001		0.5
Benzene	0.0089	0.0001	•	0.5
1,2-Dichloroethane	ND	0.0001		0.5
Trichloroethene	ND	0.0003		0.5
Tetrachloroethene	ND	0.0005		0.7
Chlorobenzene	ND	0.0003		100
1,4-Dichlorobenzene	ND	0.0002		7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery		
		Trifluorotoluene	98%		
		Bromofluorobenzene	99%		
References:	Method 1311, Toxicity Cl	naracteristic Leaching Procedure, SW	/-846, USEPA, July 1992.		
		e-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: Hart #1 Comp. Station Composite Sample 9 Drums.

Analyst L. Ofen

Mustine M Walters
Review



### EPA METHOD 8040 PHENOLS

		· · · · · · · · · · · · · · · · · · ·	•
Client:	EPFS	Project #:	705732
Sample ID:	Lube Oil Upset	Date Reported:	12-12-00
Laboratory Number:	18931	Date Sampled:	12-04-00
Chain of Custody:	9166	Date Received:	12-05-00
Sample Matrix:	TCLP Extract	Date Extracted:	12-06-00
Preservative:	Cool	Date Analyzed:	12-12-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recover	ry
	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	٠.
· · · · · · · · · · · · · · · · · · ·			

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:

Hart #1 Comp. Station Composite Sample 9 Drums.

Analyst

Mister of Walters Review



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

Client:	EPFS	Project #:	705732
Sample ID:	Lube Oil Upset	Date Reported:	12-12-00
Laboratory Number:	18931	Date Sampled:	12-04-00
Chain of Custody:	9166	Date Received:	12-05-00
Sample Matrix:	TCLP Extract	Date Extracted:	12-06-00
Preservative:	Cool	Date Analyzed:	12-12-00
Condition:	Cool and Intact	Analysis Requested:	TCLP
	- f - '		

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	Paramete	r Percent Recovery	!
		• • • • • • • • • • • • • • • • • • • •	
and the second s			

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:

Hart #1 Comp. Station. Composite Sample 9 Drums.

Alew L. Ofercu

Mustin M Lades
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

			•
Client:	EPFS	Project #:	705732
Sample ID:	Lube Oil Up	oset Date Reported:	12-13-00
Laboratory Number:	18931	Date Sampled:	12-04-00
Chain of Custody:	9166	Date Received:	12-05-00
Sample Matrix:	TCLP Extra	ct Date Analyzed:	12-12-00
Preservative:	Cool	Date Extracted:	12-06-00
Condition:	Cool & Intac	ct Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.002	0.001	5.0
Barium	0.602	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	ND	0.001	5.0
Lead	0.012	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Hart #1 Comp. Station. Composite Sample 9 Drums.

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# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

	·	· · · · · · · · · · · · · · · · · · ·	•
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-12-00
Laboratory Number:	12-12-TVol	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-00
Condition:	N/A	Analysis Requested:	TCLP
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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	ŅĎ	0.0001		0.5
1,2-Dichloroethane	ND	0.0001		0.5
Trichloroethene	ND	0.0003		0.5
Tetrachloroethene	ND	0.0005	•	0.7
Chlorobenzene	ND .	0.0003	• •	100
1,4-Dichlorobenzene	ND	0.0002		7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	1	Parameter .	Percent Recovery	
			Trifluorotoluene	100%	
			Bromofluorobenzene	100%	
References:	Method 1311	, Toxicity Cha	racteristic Leaching Procedure, SW-8	346, USEPA, July 1992.	

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.

Method 8010, Halogenated Volatile Organics, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

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

Comments: QA/QC for sample 18931.

Note:

Den L. Office

Mister M Walter
Review



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

011			
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-12-00
Laboratory Number:	12-06-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-00
Condition:	N/A	Date Extracted:	12-06-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample 18931.

Alex P. Oglewn

Misting Walles



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

'	·	
Client:	QA/QC	Project #: N/A
Sample ID:	Matrix Duplicate	Date Reported: 12-12-00
Laboratory Number:	18931	Date Sampled: N/A
Sample Matrix:	TCLP Extract	Date Received: N/A
Analysis Requested:	TCLP	Date Analyzed: 12-12-00
Condition:	N/A	Date Extracted: 12-06-00
•		

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
	1000			
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0245	0.0245	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0089	0.0089	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 18931.

Alen L. Ofenn Analyst

Review M W



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	12-12-00
Laboratory Number:	18931	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-12-00
Condition:	N/A	Date Extracted:	12-06-00

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0245	0.050	0.0735	0.0001	99%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	0.0089	0.050	0.0584	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050,	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 18931.

Alexa L. Ofence

Misting Wallers
Review



### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

· · · · · · · · · · · · · · · · · · ·		1 11	•
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-12-00
Laboratory Number:	12-12-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-00
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

Surrogate R	ecoveries: /	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 18931.

Ale L. Gelier

Misteri m Walters
Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-12-00
Laboratory Number:	12-06-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-06-00
Condition:	Cool & Intact	Date Analyzed:	12-12-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenois, 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 18931.

Alle L. Cylier.

Mistin m Walter Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-12-00
Laboratory Number:	18931	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-06-00
Condition:	Cool & Intact	Date Analyzed:	12-12-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC	Accepta	nce C	riteri	a:		Para	meter		V	laximum D	ifference	r l
	•		•		,	,	:				:	
						8040	Compound	ds		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 18931.

Analyst C. Cedeen

Mister M Walles
Review



## 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:	12-12-00
Laboratory Number:	12-12-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-12-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

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

Note:

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

Comments:

QA/QC for sample 18931.

Den L. Cefuer

Mustine my Walles



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-12-00
Laboratory Number:	12-06-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-06-00
Condition:	Cool and Intact	Date Analyzed:	12-12-00
•		Analysis Requested:	TCLP

Parameter	Det. Concentration Limit eter (mg/L) (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.

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 18931.

Analyst L. Celecu

Misting Saller Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-12-00
Laboratory Number:	18931	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	12-06-00
Condition:	N/A	Date Analyzed:	12-12-00
	.:	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

8090 Compounds

30%

References:

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

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

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

Note:

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

Comments:

QA/QC for sample 18931.

Analyst L. Queen

Mistin m Laster Review

## VIROTECH LABS

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

Client:	QA/QC	Project #:	N/A
Sample ID:	12-12-TCM QA/QC	Date Reported:	12-13-00
Laboratory Number:	18931	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	12-12-00
Condition:	N/A	Date Extracted:	N/A
•			

Blank & Duplicate I	nstrument Blank	Method Blank	Detectio		Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Barium	ND	ND	0.001	0.602	0.600	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND.	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	0.012	0.012	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Sales. Conc. (mg/L)	Spike: Added	' Sampl		Rercent C	Acceptance Range
Arsenic	0.500	0.002	0.501	99.8%	80% - 120%
Barium	0.500	0.602	1.10	99.8%	80% - 120%
Cadmium	0.500	0.003	0.502	99.8%	80% - 120%
Chromium	0.500	ND	0.499	99.8%	80% - 120%
Lead	0.500	0.012	0.510	99.6%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.497	99.4%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 18931.

Analyst

09166

Client / Project Name			Project Location	FI Comp.	Stati	on	ANALYSIS / PARAMETERS									
Sampler:						8 0 4	1 4	· .					Remarks			
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Sample No./ Identification	Sample Date	Sample Time	Lab Number	1	ımple latrix		Cont	TELP WORKED							<del></del>	· .
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Relinquished by: (Signatur	ire) _			Date	Time	Recei	ved by:	(Signatu	re)						Date	Time
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Relinquished by: (Signatur	re)	,			4	Recei	ved by:	(Signatu	re)							
Relinquished by: (Signatur	re)				1	Recei	ved by:	(Signatu	re)				: :			
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					(505) 6					. •	*	•	Cool	- Ice/Blue Ic	e	

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

New Mexico

Energy . \_\_ierals and Natural Resources \_\_partment

Oil Conservation Division 2040 South Pacheco Street

Santa Fe, New Mexico 87505 (505) 827-7131 Submit Origina
Plus I Com

DATE: 02/07/01

Submit Origina
Plus I Copy
to appropriate
District Office

Form C-138

Originated 8/8/95

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Halliburtan
Verbal Approval Received: Yes 🔲 No 🔄	5. Originating Site Main Yand
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Educatech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Maroico
7. Location of Material (Street Address or ULSTR)	4109 E. Hain St. Farmington, NEW Massico
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Condinuation of warer boy solve TCLP ATTACHED.	S 61891077
	FEB 2001 RECEIVED OIL CON DW DIST. 3
Estimated Volume — cy Known Volume (to be entered by the ope	erator at the end of the haul) — 98 cy
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELI	DATE: 01.29.6/ EPHONE NO.
(This space for State Use)  APPROVED BY: Levy Fam TITLE: Geolog	9 15T DATE: 01/31/0/

District I (505) 393-6161 P. O. 30x 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pirtict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Originated 8/8/95
Submit Original
Plus 1 Copy

Form C-138

ubmit Original
Plus I Copy
to appropriate
District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 2	4. Generator Halliburten
Verbal Approval Received: Yes 🔲 No 🔁	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Educatech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Meroico
7. Location of Material (Street Address or ULSTR)	4109 E. Hain St. Farmington, NEW Mexico
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompressed to accept non-exempt wastes must be accompressed the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	empanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
SIGNATURE: Handfarm Maste Management Facility Authorized Agent  Waste Management Facility Authorized Agent	rator at the end of the haul) — cy
APPROVED BY: 1 Peny Tomy TITLE: ( el (a)	, ,
APPROVED BY: TITLE:	DATE:

;5056321865

# 3/ 3



### **REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

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

Date of TCLP

1-11-00

Printed Name

Douc Hooses

Title / Agency

Thantenes Depeurs

Address

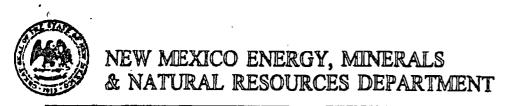
4109 E Main

tarmy 11/1

Signature

01-24-01

Date



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
Halleberton Energy Dervices 4109 EMBIN	Envirotech Inc.
4109 E MAIN	Soil Remediation Remediation Facility Landfarm #2, Hilltop,New Mexico
Farmington M Thexico 87401	5796 US Hwy 64. Farmington, NM 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Wash Bay (Some os above)	4109 E Main
Holding area	Farmington MMax
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Wash Bay Solid	o (continuation)
1988, regulatory determination, the above described v	representative for:  do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification)  PT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or nor	avenut oon hazardays waste defined above
and that nothing has been added to the exempt of hor	revempt non-instanded waste defined above.
For NON-EXEMPT waste the following documentate MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	aturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): None Social	<u>u</u>
Title: Thanknas Supervis	Phone
1-24-01	



#### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

Halliburton Energy Services

Project #:

213201

Sample ID:

Wash Bay Sludge

Date Reported:

02-10-00

Lab ID#:

G811

Date Sampled:

02-10-00

Sample Matrix:

Sludge

Preservative:

Date Received:

02-10-00

Cool

Date Analyzed:

02-10-00

Condition:

Cool and Intact

Chain of Custody:

7673

**Parameter** 

Result

**IGNITABILITY:** 

**Negative** 

**CORROSIVITY:** 

**Negative** 

pH = 7.60

**REACTIVITY:** 

**Negative** 

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

**CORROSIVITY:** 

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

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

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23.

(i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

4109 E. Main, Farmington, NM.



			•
Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0429	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0066	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

4109 E. Main, Farmington, NM.

Analyst

Review





Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

4109 E. Main, Farmington, NM.

Analyst



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

Client:	Halliburton Energy Services	Proiect #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
<u> </u>		

#### 2-fluorobiphenyl

96%

References:

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

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

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

Note:

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

Comments:

4109 E. Main, Farmington, NM.

Den P. afera

Pristing M Wasters



## A METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Analyzed:	02-16-00
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
			-
Arsenic	0.064	0.001	5.0
Barium	0.640	0.001	21
Cadmium	0.035	0.001	0.11
Chromium	0.024	0.001	0.60
Lead	0.034	0.001	0.75
Mercury	0.002	0.001	0.025
Selenium	0.021	0.001	5.7
Silver	0.019	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4109 E. Main, Farmington, NM.

Analyst

3eview



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-14-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

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

Comments: QA/QC for samples G810 - G811 and G836.

Allen R. aferen



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00
	•	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.000 <b>1</b>	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 <i>.</i> 5

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for samples G810 - G811 and G836.

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Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

	Duplicate				
	Sample	Sample	Detection		
	Result	Result	Limits	Percent	
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference	
Vinyl Chloride	ND	ND	0.0001	0.0%	
1,1-Dichloroethene	ND	ND	0.0001	0.0%	
2-Butanone (MEK)	0.0129	0.0129	0.0001	0.0%	
Chloroform	ND	ND	0.0001	0.0%	
Carbon Tetrachloride	ND	ND	0.0001	0.0%	
Benzene	0.0038	0.0038	0.0001	0.0%	
1,2-Dichloroethane	ND	ND	0.0001	0.0%	
Trichloroethene	ND	ND	0.0003	0.0%	
Tetrachloroethene	ND	ND	0.0005	0.0%	
Chlorobenzene	ND	ND	0.0003	0.0%	
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%	

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples G810 - G811 and G836.



QA/QC Client: Project #: N/A Sample ID: Matrix Spike Date Reported: 02-16-00 Laboratory Number: G810 Date Sampled: N/A Sample Matrix: **TCLP Extract** Date Received: N/A Analysis Requested: **TCLP** Date Analyzed: 02-14-00 Condition: N/A Date Extracted: 02-11-00

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0129	0.050	0.0624	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0038	0.050	0.0536	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples G810 - G811 and G836.

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### PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-15-00
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples G810 - G811 and G836.

Allen L. Glevan

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## EPA METHOD 8040 PHENOLS Quality Assurance Report

•			
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

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Note:

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

Comments:

QA/QC for samples G810 - G811 and G836.

Analyst Coleum



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
•		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples G810 - G811 and G836.

Analyst



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	

2-fluorobiphenyl

97%

References:

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

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

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

Note:

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

Comments:

QA/QC for samples G810 - G811 and G836.

Analyst A. Quu

Priotin My Walters



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool and Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

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

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

Note:

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

Comments:

QA/QC for samples G810 - G811 and G836.

Den L. Quece

Phristing Walters
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## 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:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-11-00
Condition:	N/A	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference
		8090 Compounds	30%
Peferences	Method 1311 Toxicity	Characteristic Leaching Procedure SV	M-846 LISEPA July 1992

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 G810 - G811 and G836.

Analyst Price Price Price Review Mactus



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

Client:	QA/QC	Project #:	N/A
Sample ID:	02-16-TCM QA/QC	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-16-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate	Instrument (	<b>Method</b>	Detection	on Sample	Duplicate		Acceptance
Conc. (mg/L)	Blank	<b>Blank</b>	Limit			Diff.	Range
Arsenic	ND	ND	0.001	0.067	0.066	1.5%	0% - 30%
Barium	ND	ND	0.001	0.585	0.582	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.035	0.035	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Lead	ND	ND -	0.001	0.031	0.031	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.037	0.036	2.7%	0% - 30%
Silver	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%

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≥ <b>©</b> on <b>č</b> (me(L) =	ZAdjeled.		ំ នៃការ	Reservative	Pange
Arsenic	0.500	0.067	0.566	99.8%	80% <b>-</b> 120%
Barium	0.500	0.585	1.08	99.8%	80% - 120%
Cadmium	0.500	0.035	0.534	99.8%	80% - 120%
Chromium	0.500	0.022	0.521	99.8%	80% - 120%
Lead	0.500	0.031	0.530	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.037	0.535	99.6%	80% - 120%
Silver	0.500	0.016	0.515	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples G810 - G811 and G836.

Analyst

District I. (505) 393-6161 P. O. Box \$980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Protect III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 97057-039

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: □	4. Generator EPFS
Verbal Approval Received: Yes No 🔲	5. Originating Site Huttan Gas
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Edutrotecty
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Nou Harpico
7. Location of Material (Street Address or ULSTR)	See 6, TZ9N, RIZW SJC
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accept acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigne	d for transport.
Estimated Volume   Larum cy Known Volume (to be entered by the op	2001 EIVED WIT. 3 erator at the end of the haul)  Company
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 0(~ ((.6))  EPHONE NO. 505-632-0615
APPROVED BY:  APPROVED BY:  TITLE:	DATE: 2-2-01

### **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:			
El Paso Field Services Co.	Envirotech Soil Remediation Facility			
614 Reilly Avenue	Landfarm #2			
Farmington, NM 87401	Hilltop, New Mexico			
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):			
Hutton Gas Com #1E Well	Section 6, T29N, R12W, San Juan Co., NM			
Attach list of originating sites as appropriate  4. Source and Description of Waste				
	prayed out of the portable separator blow down line.			
Approximately 2 gallons of produced liquids were s	prayed out of the portable separator blow down line.			
·				
ı, <u>David Bays</u>	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)				
NON-EXEMPT oilfield waste which is non-hazardous by				
X EXEMPT Oilfield waste 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 docum	nentation is attached (check appropriate items):			
MSDS Information Other (description)				
RCRA Hazardous Waste Analys Chain of Custody				
1() ^	O			
lame (Original Signature):	Day			
itle: Principal Er	nvironmental Scientist			
ate: January 11	, 2001			

District I - (505) 393-6161 P. C. Box 1980 Hobbs, NM 88241-1980 <u>District II</u> - (505) 748-1283 811 S. First Artesia, NM 88210 "-trict III - (505) 334-6178

Rio Brazos Road

District IV - (505) 827-7131

APPROVED BY:

c, NM 87410ء۔۔۔

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 96052

大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大	· · · · · · · · · · · · · · · · · · ·
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: Non-Exempt: 10.23.01	4. Generator Phillips Retroland
Verbal Approval Received: Yes 🔃 No 🔲	5. Originating Site うて、29-5 4 5日以
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Key Ewergy
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Maxico
7. Location of Material (Street Address or ULSTR)	" R" Sac 30, TZ9N, R5W RIO ANTER Court
9. Circle One:	<b>J</b>
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommended accept; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommended accept. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Produced water & corrosion in hibite	or contominated soil
AUG : PECEI OIL COM DIST	STELL STELL
Estimated Volume S Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELI	DATE: <u>U - 26 · 0</u> ( EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy 2, Frent TITLE: Environ	/Engl DATE: 8/26/02

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:	FAX- 632-1865
Phillips Petroleson 5525 U.S. HWY 64	Bassanah Cail Ba	emediation Facility
5525 U.S. HW464	Landfarm #2	
FARMINGTON DW. 87401	Hilltop, New Mexic	
3. Originating Sita (name):	Location of the Waste (Stre	eet address &/or ULSTR):
29-5 38m	* ; ;	
27-3 3000		
	*	
Attach list of originating sites as appropriate  4. Source and Description of Waste		
2-3 BB/ Sp.// OF / Washele Con	il From A	
J-3 a/cm	1 O WATER	mixel
D ? RA Sp. 11 OF	Droduces	
de la con	Rasian inhibita	
af Oswanie	,	
1. R. A. Willanes		epresentative for:
(Print Name)	; ;	de thousand doction show
according to the Resource Conservation and Recover	y Act (RCRA) and Environme	do hereby certify tha
1988, regulatory determination, the above described		
X PARADE VICTAL	Por ation is a second table to be	a basedana bu abomotoriotic
	by product identification	on-hazardous by characteristic
and that nothing has been added to the exempt or no	n-exempt non-hazardous was	ste defined above.
For NON-EXEMPT waste only the following docum	nentation is attached (check a	appropriate items):
MSDS Information	Other (descri	
RCRA Hazardous Waste Analysis Chain of Custody	• •	
Chair of Custody		
Martin Wat		
Name (Original Signature):	, ,	
C rela P		
Co CHC B	nelos	
Title: Sq. EHS Sq.	nclos	
Title: SA EHS SA.  Date: 11/19/51	nc/os	

District I - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 10 trict III - (505) 334-6178 Rio Brazos Road

c, NM 87410ء۔۔۔

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

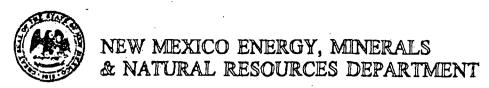
Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

A0184-002 Env. JN:

strict IV - (505) 827-7131	Env. JN: <u>#0(84-002</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Q.26.01	4. Generator S& Tutorests
Verbal Approval Received: Yes Mo No	5. Originating Site Argusta Ute # 24
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Educatech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colo -> NM
7. Location of Material (Street Address or ULSTR)	SE4. Sec 31, T34N, RIOW LA Plata County Co
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted accept; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigne	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Drill cuttings gonerated during	a Phase I site investiget
Drill cuttings generated downing at a natural gas well location	SEP 2001 ON CON ON NO
Estimated Volume (to be entered by the op	erator at the end of the haul) ————— cy
SIGNATURE: Harlan M. Brown	505-632-0615
TYPE OR PRINT NAME: TEL	EPHONE NO. 303 032 0013

(This space for State Use) APPROVED BY: APPROVED BY:



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

SG Interests	
	Envirotech Soil Remediation Facility
125 E. 10th St	Landarm #2
Durango, CO 81302	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Argenta Ute #2, WDW (SE 1/4, Sec	31, T34N, R 10W) La Plata County CO
Attach list of originating sites as appropriate	
4. Source and Description of Waste	•
a due diligence investigation of exploration and production of a g	ed waste were developed from boring while conduct any past emissions that may have occurred during gas field. Analytical results indicate petroleum petroleum (DRO) in two soil samples. See attache cted.
Erik K. Vermulen	representative for:
(Print Name)	
SG Interests / Conoco	do hereby certify the
rsis included	alysis or by product identification
THE THAT HOUSING THE DEET BOUGH TO THE EXCH	npt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following do	cumentation is attached (check appropriate items):
For NON-EXEMPT waste the following do	cumentation is attached (check appropriate items):  Other (description):
For NON-EXEMPT waste the following do	cumentation is attached (check appropriate items):  Other (description):
For NON-EXEMPT waste the following domestic MSDS Information  — MSDS Information — RCRA Hazardous Waste And — Chain of Custody  This waste is in compliance with Regulated Le	cumentation is attached (check appropriate items): Other (description): alysis evels of Naturally Occurring Radioactive Material (NORM) pursu
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MAXIM TECHNOLOGIES

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W. 6<sup>th</sup> Ave. Suite 1-A
 Golden, CO 80401-5009

Telephone: (303) 279-7885 Facsimile: (303) 279-7816

12 September 2001

Colorado Oil and Gas Conservation Commission Attn: Ms Debbie Baldwin 1120 Lincoln St, Ste 801 Denver, CO 80203

Subject: Notification of Anticipated Investigative Derived Waste (IDW) Disposal (Argenta Ute #2, WDW – Six Drums)

Dear Ms Baldwin,

Maxim Technologies performed services as the representative of SG Interests in the anticipated sale of a gas field in La Plata County, CO during the period June and July 2001. As part of the due diligence for this anticipated sale, the potential buyer requested we conduct below ground assessments of any soil or ground water that may have been contaminated in association with previous exploration and production operations. Maxim performed shallow borings (15 to 48° BGS) of surface soils; soil samples were collected from at least three intervals where the geologist observed any potential contamination. If initial ground water was encountered, a monitoring well was installed and a water sample collected. All cuttings and development water were drummed for disposal.

We are proposing to remove six drums of IDW from the Argenta Ute #2, WDW location at the SE1/4, Sec. 31 of T34N, R10W to the New Mexico EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, NM. The IDW is understood to be exempt waste secondary to the exploration and production of petroleum products. Attached are the sample chain of custody form and the summary of the analytical results on the subject IDW. Diesel range organics were detected between 28 and 700 mg/kg in two soil samples; no results exceeded the COGCC criteria for any analyte.

The sponsors of this due diligence effort have requested that the IDW be disposed of at properly licensed facilities regardless of the unregulated levels of measured contaminates. This letter is provided as a courtesy to provide COGCC staff appropriate notification of the intended disposition of the subject IDW.

Sincerely

MAXIM TÈCHNOLOGIES, INC.

Erik K. Vermulen Office Manager

## Project Narrative

The following report contains the analytical results for fifteen water samples received at STL Denver on July 16, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. STL Denver is NELAP approved for all parameters reported. Any exceptions are noted below.

#### Supplemental QC Information

#### Sample Arrival and Receipt

The temperatures of the sample coolers upon receipt at the laboratory were 1.4°C, 3.0°C and 0.5°C. All sample bottles were received in acceptable condition.

#### GC/MS Volatiles – Method 8260B

The MS/MSD recoveries for trichloroethene were outside the established control limits on the unrelated laboratory QC sample associated with the batch. Due to the saturation of trichloroethene present at levels that exceed the calibration range, the measured amounts are estimated and could not be evaluated accurately. The spike and duplicate spike recoveries for sample D1G170160-005 were all within the established control limits. All calibration and OC criteria were met.

#### GC Semivolatile - Method 8015B DRO

The MS/MSD recoveries for the unrelated laboratory QC samples are diluted out due to the presence of interfering non-target compounds, which result in elevated reporting limits. The reporting limits are adjusted relative to the required dilution. Surrogate recoveries are not calculated due to the required dilutions.

The method required MS/MSD could not be performed for batch (1203115) due to insufficient sample volume. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

#### General Chemistry – Method SW846 7.3.4 Reactive Sulfide

The sample and duplicate sample results are values present at or below the reporting limit but higher than the method detection limit with an RPD of 200. The laboratory database used for reporting currently limits the reporting of results for the sample duplicate report with qualifiers and that is why the results are reporting as ND.

## **EXECUTIVE SUMMARY - Detection Highlights**

#### . D1G170160

	PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD					
SPRING	GULCH NO. 3 07/15/01 15:15 00	1								
	Flashpoint pH	>160 7.7	0.10	deg F No Units						
ARGENTA UTE #2 WDW-NO. 3 07/15/01 11:30 003										
	Flashpoint pH	>160 7.3	0.10	deg F No Units	SW846 1010 SW846 9040B					
ARGENTA	UTB #2 WDW-NO.3-1(10-11)B 07/	14/01 13:00	007							
	Diesel Range Organics	28	10	mg/kg	SW846 8015B					
SPRING	GULCH-NO.3-1(40-41)A 07/14/01	08:00 010								
	Diesel Range Organics	13	10	mg/kg	SW846 8015B					
SPRING	GULCH-NO.3-1(40-41)B 07/14/01	08:00 012								
	Diesel Range Organics	18	10	mg/kg	SW846 8015B					
SPRING	GULCH-NO.3-2(10-11) 07/13/01 1	5:45 013								
:	Diesel Range Organics	10	10	mg/kg	SW846 8015B					

### **METHODS SUMMARY**

## D1G170160

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040B	SW846 9040B
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3510
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3550B
Pensky-Martens Method for Determining Ignitability	SW846 1010	SW846 1010
Reactive Cyanide	SW846 7.3.3	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4	SW846 7.3.4
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030
Volatiles by GC	SW846 8021B	SW846 5030

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## METHOD / ANALYST SUMMARY

#### D1G170160

ANALY	FICAL	•	ANALYST
METHOD		ANALYST	ID
SW846	1010	Roger Winn	000597
SW846	6010B	Lynn-Anne Trudell	006645
SW846	7.3.3	Ewa Kudla	001167
SW846	7.3.4	Roger Winn	000597
SW846	8015B	Erin Wobrock	000373
SW846	8015B	Shawn Hadley	060376
SW846	8021B	Shawn Hadley	060376
SW846	8260B	Dan Appelhans	001008
SW846	8260B	Mike Armstrong	002544
SW846	9040B	Duane Allee	001470

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

#### SAMPLE SUMMARY

#### D1G170160

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EGFWX	001	SPRING GULCH NO. 3	07/15/01	15:15
EGFOM	002	TRIP BLANK	07/15/01	15:15
EGFOV	003	ARGENTA UTE #2 WDW-NO. 3	07/15/01	11:30
EGF1E	004	TRIP BLANK	07/15/01	11:30
EGF1H	005	ARGENTA UTE #2 WDW-NO.3-1(10-11)A	07/14/01	13:00
EGF18	006	ARGENTA UTE #2 WDW-NO.3-1COMP.	07/14/01	17:00
EGF2G	007	ARGENTA UTE #2 WDW-NO.3-1(10-11)B	07/14/01	13:00
EGF21	800	ARGENTA UTE #2 WDW-NO.3-2(5-6)	07/14/01	12:30
EGF25	009	ARGENTA UTE #2 WDW-NO.3-3(20-21)	07/14/01	15:00
EGF26	010	SPRING GULCH-NO.3-1 (40-41) A	07/14/01	08:00
EGF3T	011	SPRING GULCH-NO.3-1COMPOSITE	07/14/01	09:30
EGF31	012	SPRING GULCH-NO.3-1(40-41)B	07/14/01	08:00
EGF32	013	SPRING GULCH-NO.3-2(10-11)	07/13/01	15:45
EGF35	014	SPRING GULCH-NO.3-3 (15-16)	07/13/01	16:30
EGF36	015	ARGENTA UTE #2 WDW #4(5-6)	07/14/01	18:00

#### NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Severn Trent Laboratories, Inc.

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menta Ute #2 WDW-No. 3-1 Como. 7-14-01	1700	SOLID	8oz	CLEAR GI	T		•		Х					
Argenta Ute #2 WDW-No.3-1 (10-11) 7-14-01		SOLID	40Z	CLEAR GI				X	X		<u> </u>			
Argenta Ute #2 WDW-No.3-2 (5-6') 7-14-01			40z	CLEAR GI	T	lione		x						
Argenta Ute #2 WDW-No.3-3 (20-21) 7-14-01	1500	SOLID	40z	CLEAR GI	2	None		$\lfloor x \rfloor$	x					
Spring Gulch-No.3-1 (40-41) 7714-0			40Z	CLEAR GI	4	None		$ \mathbf{x} $	х					
Spring Gulch-No. 3-1 Composite 7-14.0	10930	SOLID	80Z	CLEAR GI	1	None			x					
Spring Gulch-No.3-1(40-4/') 7-14-01	0800	SOLID	40z	CLEAR GI	1	None		х	х					
Spring Gulch-No.3-2(10-11') 7-19-61	1545	SOLID	40Z	CLEAR GI		None		X	x L					
Spring Gulch-No.3-3 (15-16') 7-13-01	1630	SOLID	40Z	CLEAR GI	2	llone		X.	x			_ _		
Argenta 4++ 2 wow #4/5-6 7-14-0	1800	Solid	402	CLR	2	None		X,	X			_ _		
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Special Instructions Quote 42471 8260B/BT	EX/MTBE	8015B/DRO	6	010B TCLE	Lead	d								
Possible Hazard Identification			Sample Disp					(A	lec i	nav be	assos	sed if	sanıni	les are
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Comments	· · · · · · · · · · · · · · · · · · ·	<u> </u>				<del>-</del>							<u> </u>	···

## Project Narrative

The following report contains the analytical results for seven soil samples received at STL Denver on June 25, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

#### Supplemental QC Information

#### Sample Arrival and Receipt

The temperatures of the sample coolers upon receipt at the laboratory were 4.8°C and 0.2°C. All sample bottles were received in acceptable condition.

The chain of custody documentation indicated that a Trip Blank sample was received at the laboratory and was not received. After communication with the client the laboratory was told that the sample was not required.

The chain of custody documentation indicated that a various number of containers were received for the samples listed for each specific analysis requested. All of the samples except for the composite sample were received with insufficient sample volume. The samples were sub sampled at the laboratory to allow for adequate sample volume to perform the analysis.

#### GU/MS Volatiles - Method 8260B

The MS/MSD recovery for all of the spiked compounds was outside the established control limits. Repeated analysis confirms clear evidence of matrix interference. All other calibration and QC criteria were met.

### DRO/GC Semivolatile - Method 8015B

The MS/MSD and surrogate recoveries performed on the unrelated sample for batch # 1180210 were not calculated because the spikes were diluted out due to matrix interference. The Laboratory Control Sample and Method Blank were in control and corrective action is not required.

### SAMPLE SUMMARY

#### D1F270150

WO .#	SAMPLE	# CLIENT SAMPLE ID	SAMPLED SAMP DATE TIME
EFKJL	001	ARGENTA UTE#2-NO.1-1	06/20/01 13:30
EFKJR	002	ARGENTA UTE#2-NO.1-2	06/20/01 13:45
EFKJT	003	ARGENTA UTE#2-NO.1-3	06/20/01 14:00
EFKJW	004	ARGENTA UTE#2-NO.2-1	06/20/01 16:30
EFKJX	005	ARGENTA UTE#2-NO.2-2	06/20/01 16:30
EFKJ3	006	ARGENTA UTE#2-NO.2-3	06/20/01 16:30
EFKJ5	007	ARGENTA UTE COMPOSITE	06/20/01 16:40

#### NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH. porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CHAIN OF CUSTODY NUMBER

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Severn Trent Laboratories, Inc.

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A-lare 28				Telephone Nun	nber (Area Code).	/Fax Number		t.o	ib Location	T									
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- Aryanta Hra#2-No,1-1				SOLID-	500mL	CLEAR GL		None				X							
Arganta Ute#2-No.1-2		6 70/01	17:15	SOLID	120mL	CLEAR GL	2	None			X.								
Argenta Ute#2-No.1-3		6/20/01	14:00	SOLID	120mL	CLEAR GL	2	None			X)							].  -	
Argenta Ute#2-No.2-1		6/20/01	16:30	SOLID	120mL	CLEAR GL	3	None		X	Х	X							
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Argenta Ute#2-No.2-2		6/20/01	16:30	SOLID	120mL	CLEAR GL	2	None		Х	Х	X							
Arganta Ute#2-No.2~3		6/28/01	16:70	SOLID	120mL	CLEAR GL	2	None		Х	Х	Х							
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District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 trict III - (505) 334-6178 Rio Brazos Road

ec, NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

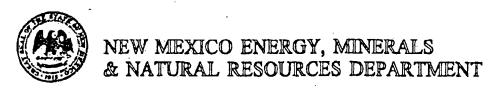
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

ANIQUEDO

atrict IV - (505) 827-7131	Env. JN: <b>RO(84-00</b> 2
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Q. 26.01	4. Generator SG. Tuterest
Verbal Approval Received: Yes ☑ No ☐ 10:45	5. Originating Site A squate CDP
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essuivatech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colo -> NA
7. Location of Material (Street Address or ULSTR)	SE4, Sec 4, T34N, R. (OW)
9. Circle One:	3:
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommodately one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted to the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:  Drill cultings generated during at a natural gas well Location	SEP 2001 RECEIVED NO DIST. 3
Estimated Volume  SIGNATURE: Known Volume (to be entered by the opening of the state of the stat	erator at the end of the haul) ————————————————————————————————————
(This space for State Use)	•



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name: Envirotech Soil Remediation Facility
SG Interests	Landarm #2
125 E. 10th St	Hilltop, New Mexico
Durango, CO 81302	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Argenta CDP (SE 1/4, Sec 4, T34N, R10W	N), La Plata County, Colorado
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
gation of any prior emissions that may production at the site. Analytical re	the were generated in performing an invest- whave occurred fro gas exploration and esults reveal contamination levels between (DRO) in three soil samples and 25 ug/L other RCRA analytes were detected
	annantativa fasi
I, Erik K. Vermulen (Print Name)	representative for:
1988, regulatory determination, the above described  X EXEMPT oilfield waste NON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT cilifield waste which is non-hazardous by characteristic by product identification
Analysis Attached	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documents  MSDS Information RCRA Hazardous Waste Analysis	
Chain of Custody	
Chain of Custody	Naturally Occurring Radioactive Material (NORM) pursuant
Chain of Custody  This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):	Naturally Occurring Radioactive Material (NORM) pursuant
Chain of Custody  This waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):	Naturally Occurring Radioactive Material (NORM) pursuant

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First-Class Mail Postage & Fees Paid USPS Permit No. G-10

· Sender: Please print your name, address, and ZIP+4 in this box ·

MAXIM TECHNOLOGIES

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SENDER: COMPLETE THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.  Article Addressed to: Colonado Oria Gra Comunistant	A. Received by (Please Print Clearly)  B. Date of Delivery SEP 1 3 2001  C. Signature  X  D. Is delivery address different from item 1?  If YES, enter delivery address below:
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W. 6<sup>th</sup> Ave. Suite 1-A Golden, CO 80401-5009

Telephone: (303) 279-7885 Facsimile: (303) 279-7816

12 September 2001

Colorado Oil and Gas Conservation Commission Attn: Ms Debbie Baldwin 1120 Lincoln St, Ste 801 Denver, CO 80203

Subject: Notification of Anticipated Investigative Derived Waste (IDW) Disposal (Argenta CDP – Six Drums)

Dear Ms Baldwin,

Maxim Technologies performed services as the representative of SG Interests in the anticipated sale of a gas field in La Plata County, CO during the period June and July 2001. As part of the due diligence for this anticipated sale, the potential buyer requested we conduct below ground assessments of any soil or ground water that may have been contaminated in association with previous exploration and production operations. Maxim performed shallow borings (15 to 48' BGS) of surface soils; soil samples were collected from least three intervals where the field geologist observed any potential contamination. If initial ground water was encountered, a monitoring well was installed and a water sample collected. All cuttings and development water were drummed for disposal.

We are proposing to remove six drums of 1DW from the Argenta CDP location at the SE1/4 of Sec. 4, T34N, R10W to the New Mexico EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, NM. The IDW is understood to be exempt waste secondary to the exploration and production of petroleum products. Attached are the sample chain of custody form and the summary of the analytical results on the subject IDW. Diesel range organics were detected between 35 and 100 mg/kg in three soil samples and 25  $\mu$ g/L gasoline range organics in one water sample; no results exceeded the COGCC criteria for any analyte.

The sponsors of this due diligence effort have requested that the IDW be disposed of at properly licensed facilities regardless of the unregulated levels of measured contaminates. This letter is provided as a courtesy to provide COGCC staff appropriate notification of the intended disposition of the subject IDW.

Sincerely

MAXIM TECHNOLOGIĘS, INC.

Erik K. Vermulen Office Manager

## Project Narrative

The following report contains the analytical results for seventeen soil samples received at STL Denver on June 25, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

#### Supplemental QC Information

#### Sample Arrival and Receipt

The temperatures of the sample coolers upon receipt at the laboratory were 4.8 and 0.2°C. All sample bottles were received in acceptable condition.

A Trip Blank sample was received at the laboratory. After communication with the client the laboratory was told that the sample was not required.

#### GC Volatiles - Method 8021B

No anomalies were observed.

#### GC/MS Volatiles – Method 8260B

The CCV recoveries for Carbon Disulfide, Hexane, and 2-Chlorovinylether exceeded their established control limits. The overall mean recovery was within the control limits and the CCV was therefore in control. The associated samples were non-detect for the affected compounds.

### Supplemental QC Information D1F270142 (continued)

The MS/MSD in batch 1187459 for sample Argenta CDP-NO. 5-2 demonstrated a recovery for benzene below the established control limits. It is not clear that this was due to matrix interference.

The MS in batch 1187459 for sample Argenta CDP-NO. 5-2 demonstrated a recovery for trichloroethene below the established control limits. It is not clear that this was due to matrix interference. The associated LCSs and Method Blanks were within established control limits. No further action was taken.

No other anomalies were observed.

GC Semi-volatiles - Method 8015B

No anomalies were observed.

TCLP Lead – Method 6010B

No anomalies were observed.

## **EXECUTIVE SUMMARY - Detection Highlights**

### D1F270142

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ARGENTA CDP-NO.1-2 06/21/01 11:30	002			
Diesel Range Organics	100	10	mg/kg	SW846 8015B
ARGENTA CDP-NO.4-2 06/22/01 10:35	011			
Diesel Range Organics	100	10	mg/kg	SW846 8015B
ARGENTA CDP-NO.4-3 06/22/01 11:00	012			
Diesel Range Organics	35	10	mg/kg	SW846 8015B

## **METHODS SUMMARY**

#### D1F270142

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3550B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatiles by GC	SW846 8021B	SW846 5030

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## METHOD / ANALYST SUMMARY

#### D1F270142

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 6010B	Lynn-Anne Trudell	006645
SW846 8015B	Erin Wobrock	000373
SW846 8021B	Shawn Hadley	060376
SW846 8260B	Mark McDaniel	000998
SW846 8260B	Steve Szocik	002410

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

### **SAMPLE SUMMARY**

#### D1F270142

EFKGN       001       ARGENTA CDP-NO.1-1       06/21/01 10:50         EFKGQ       002       ARGENTA CDP-NO.1-2       06/21/01 11:30         EFKGT       003       ARGENTA CDP-NO.1-3       06/21/01 11:50         EFKGV       004       ARGENTA CDP-NO.2-1       06/21/01 13:45         EFKGX       005       ARGENTA CDP-NO.2-2       06/21/01 14:15         EFKG0       006       ARGENTA CDP-NO.2-3       06/21/01 14:55         EFKG1       007       ARGENTA CDP-NO.3-1       06/21/01 16:20         EFKG2       008       ARGENTA CDP-NO.3-2       06/21/01 17:00         EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:00         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:05         EFKHB       013       ARGENTA CDP-NO.5-1       06/22/01 11:50         EFKHG       014       ARGENTA CDP-NO.5-2       06/22/01 12:30	WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EFKGT       003       ARGENTA CDP-NO.1-3       06/21/01 11:50         EFKGV       004       ARGENTA CDP-NO.2-1       06/21/01 13:45         EFKGX       005       ARGENTA CDP-NO.2-2       06/21/01 14:15         EFKG0       006       ARGENTA CDP-NO.2-3       06/21/01 14:55         EFKG1       007       ARGENTA CDP-NO.3-1       06/21/01 16:20         EFKG2       008       ARGENTA CDP-NO.3-2       06/21/01 17:00         EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:35         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 11:00         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKGN	001	ARGENTA CDP-NO.1-1	06/21/01	10:50
EFKGV       004       ARGENTA CDP-NO.2-1       06/21/01 13:45         EFKGX       005       ARGENTA CDP-NO.2-2       06/21/01 14:15         EFKG0       006       ARGENTA CDP-NO.2-3       06/21/01 14:55         EFKG1       007       ARGENTA CDP-NO.3-1       06/21/01 16:20         EFKG2       008       ARGENTA CDP-NO.3-2       06/21/01 17:00         EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKGQ	002	ARGENTA CDP-NO.1-2	06/21/01	11:30
EFKGX       005       ARGENTA CDP-NO.2-2       06/21/01 14:15         EFKG0       006       ARGENTA CDP-NO.2-3       06/21/01 14:55         EFKG1       007       ARGENTA CDP-NO.3-1       06/21/01 16:20         EFKG2       008       ARGENTA CDP-NO.3-2       06/21/01 17:00         EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:00         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKGT	003	ARGENTA CDP-NO.1-3	06/21/01	11:50
EFKG0       006       ARGENTA CDP-NO.2-3       06/21/01 14:55         EFKG1       007       ARGENTA CDP-NO.3-1       06/21/01 16:20         EFKG2       008       ARGENTA CDP-NO.3-2       06/21/01 17:00         EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:00         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKGV	004	ARGENTA CDP-NO.2-1	06/21/01	13:45
EFKG1       007       ARGENTA CDP-NO.3-1       06/21/01 16:20         EFKG2       008       ARGENTA CDP-NO.3-2       06/21/01 17:00         EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:00         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKGX	005	ARGENTA CDP-NO.2-2	06/21/01	14:15
EFKG2       008       ARGENTA CDP-NO.3-2       06/21/01 17:00         EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:00         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKG0	006	ARGENTA CDP-NO.2-3	06/21/01	14:55
EFKG3       009       ARGENTA CDP-NO.3-3       06/21/01 18:00         EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:00         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKGl	007	ARGENTA CDP-NO.3-1	06/21/01	16:20
EFKG4       010       ARGENTA CDP-NO.4-1       06/22/01 10:00         EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKG2	800	ARGENTA CDP-NO.3-2	06/21/01	17:00
EFKG9       011       ARGENTA CDP-NO.4-2       06/22/01 10:35         EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKG3	009	ARGENTA CDP-NO.3-3	06/21/01	18:00
EFKHA       012       ARGENTA CDP-NO.4-3       06/22/01 11:00         EFKHE       013       ARGENTA CDP-NO.5-1       06/22/01 11:50	EFKG4	010	ARGENTA CDP-NO.4-1	06/22/01	10:00
EFKHE 013 ARGENTA CDP-NO.5-1 06/22/01 11:50	EFKG9	011	ARGENTA CDP-NO.4-2	06/22/01	10:35
, ,	EFKHA	012	ARGENTA CDP-NO.4-3	06/22/01	11:00
EFKHG 014 ARGENTA CDP-NO.5-2 06/22/01 12:30	EFKHE	013	ARGENTA CDP-NO.5-1	06/22/01	11:50
	EFKHG	014	ARGENTA CDP-NO.5-2	06/22/01	12:30
EFKHH 015 ARGENTA CDP-NO.5-3 06/22/01 13:05	EFKHH	015	ARGENTA CDP-NO.5-3	06/22/01	13:05
EFKHK 017 ARGENTA CDP-NO.2-4 06/21/01 15:20	EFKHK	017	ARGENTA CDP-NO.2-4	06/21/01	15:20
EFKHL 018 ARGENTA CDP-COMPOSITE 06/21/01 15:30	EFKHL	018	ARGENTA CDP-COMPOSITE	06/21/01	15:30

#### NOTE(S):

<sup>-</sup> The analytical results of the samples listed above are presented on the following pages.

<sup>-</sup> All calculations are performed before rounding to avoid round-off errors in calculated results.

<sup>-</sup> Results noted as "ND" were not detected at or above the stated limit.

<sup>-</sup> This report must not be reproduced, except in full, without the written approval of the laboratory.

<sup>-</sup> Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CHAIN OF CUSTODY NUMBER



Services Severn Trent Laboratories, Inc.

STL4149 (0700)		* 0	0 5 6	9 4 -	0 0 1	*											
Client	Project Manager				Date												
Maxim Technologies Inc	Brian Myller				06/	08/2001		Page	·		1	of _		2			
Address	Telephone Nun	iber (Area Code)	/Fax Number			Lab L	ocalion										
14818 W. 6th Ave. Suite 1A	(000)	/ (0	000)		-	STL	Denver				Α	nalys	sis				
City State	Zip Code		Site Contact								нв		$\top$	$\prod$	TT	$\top$	$\top$
Golden CO	Brian My	ller						P	s o	T					- }		
Project Number/Name Durango Phase II	Carrier/Waybill	Number							8 2 2 1								
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : \	00082	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del> </del>					Ç	QUOTE: 42471	7:1	6 ; 0 H	1					
			Sample Type   Containers   Preservati			tive Condition on Receipt/Comments		; A S L									
Argenta CDP-No.1-1-	6-21-01	10:50	SOLID	120mL	CLEAR GI	1	Hone				хх		++	+++	++	++	十 .
. Arganta CDP-No 1-1-			SOLID	500mL	CLEAR GI	1	None		The contract of the contract o	世		x.	1	1	++		++-
Argenta CDP-No.1-2-	6-21-01	11:30	SOLID	120mL	CLEAR GI	2	None			X	XX	一	++	++	++		1
Argenta CDP-No.1-3-	6-21-01	11150	SOLID	120mL	CLEAR GI	2	None				x X		11	11	-		1
Argenta CDP-No.2-1-	6-21-01	13:45	SOLID	120mL	CLEAR GI	3	None				хх					77	1
. Argenta CDP No. 2-1-1	0		SOLID	500mL	CLEAR GI	1	None~		-	$\dashv$	二	X .	井	.	1-1	11	
Argenta CDP-No.2-2-	6-21-01	14:15	SOLID	120mL	CLEAR GI	2	None			x	x x		TT	$\Box$			
Argenta CDP-No.2-3-	6-21-01	14:55	SOLID	120mL	CLEAR GI	2	llone			X	хх				$\Box$		
Argenta CDP-No.3-1-	6-21-01	16:20	SOLID	120mL	CLEAR GI	3	None			х	хх		TT	TT			
Argenta CDP-No.3-1-	(	II OU	SOLID	500mL	GLEAR GE	1	-None-					X					
Argenta CDP-No.3-2-	6-21-01	17:00	SOLID	120mL	CLEAR GI	2	None				ХХ		$\prod$				
Argenta CDP-No.3-3-	6-21-01	18-00	SOLID	120mL	CLEAR GI	2	None				хх						
Argenta CDP-No.4-1-	6-22-01	10:00	SOLID	120mL	CLEAR GI	3	None			X	x x		1.				
- Argenta CDP-Ho:4-1-	6		-SOLID	500mL	CLEAR GI	1	-Hone			1		*	-				
Argenta CDP-No.4-2- 6-22-01 10:35		SOLID	120mL	CLEAR GI	2	None				хх							
Argenta CDP-No.4-3-	6-22-01	11:00	SOLID	120mL	CLEAR GI	2	None			X	$x \mid x \mid$						
Special Instructions Quote 42471 8260B/BTEX/MTBE 8015B/DRO 8021B/Halocarbons 6010B/TCLP Lead																	
Possible Hazard Identification				Sample Disposal							(A fee may be assessed if samples are						
☐ Non-Hazard ☐ Flammable ☐ Skir	Irritant 🔲	Poison 8	Unknow	n 🔲 Return I	o Chent	Dis <sub>l</sub>	posal By Lab	, [	Archive For Months					an 3 m			
Turn Around Time Required			OC Level		Project	Specific	Requiremen	nts (Sp	ecify)								
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3. Relinquished By			Date	Time	3. Rece	ived By						Date			Tir	пе	
Comments																	

CHAIN OF CUSTODY NUMBER



SOLID   120mL   CI	iners Type No. CLEAR GL 3 N CLEAR GL 2 N CLEAR GL 2 N CLEAR GL 2 N CLEAR GL 1 1	QUOTE: 42471  QUOTE: 42471  Preservative Condition on Receipt/ None  None None 1:1 HCL  Vc:Q	X X X X X X X X X X X X X X X X X X X
Telephone Number (Area Code)/Fax (000) / (000) Site Contact Brian Myller Carrier/Waybill Number  Tample Type Volume SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI WATER 40mL VI	iners Type No. CLEAR GL 3 N CLEAR GL 1 N CLEAR GL 2 N CLEAR GL 2 N CLEAR GL 2 N	QUOTE: 42471  QUOTE: 42471  Preservative Condition on Receipt/ None None None 1:1 HCL	Analysis  T M 8 M P S 0 T H 8 2 6 S 2 1 0 I 6 I 1 S 0 H 0 I A T S L P X X X X X X X X X X X X X X X X X X X
Contact Brian Myller Carrier/Waybill Number  Cample Type  SOLID  SOLID  SOLID  SOLID  SOLID  SOLID  SOLID  SOLID  SOLID  SOLID  SOLID  SOLID  CI  SOLID  CI  SOLID  CI  SOLID  CI  SOLID  CI  SOLID  CI  CI  CI  CI  CI  CI  CI  CI  CI	iners Type No. CLEAR GL 3 N CLEAR GL 1 N CLEAR GL 2 N CLEAR GL 2 N CLEAR GL 2 N	QUOTE: 42471  Preservative Condition on Receipt/ None None None 1:1 HCL	T M 8 M P S 0 T H 8 2 6 S 2 1 0 ; 6 ; 1 S 0 H 0 ; A T S L P X X X X X X X X X X X X
Site Contact  Brian Myller  Carrier/Waybill Number  Cample Type  SOLID	iners Type No. CLEAR GL 3 N CLEAR GL 1 N CLEAR GL 2 N CLEAR GL 2 N CLEAR GL 2 N	QUOTE: 42471  Preservative Condition on Receipt/ None  None None 1:1 HCL	P S 0 T H 8 2 6 S 2 1 0 ; 6 ; 1 S 0 H 0 ; A T S L P X X X X X X X X X X X
Brian Myller  Carrier/Waybill Number  Cample Type	Type No. PLEAR GL 3 No. PLEAR GL 1 No. PLEAR GL 2 NO. PLEAR GL 2 N	Preservative Condition on Receipt/ None None None 1:1 HCL	P S 0 T H 8 2 6 S 2 1 0 ; 6 ; 1 S 0 H 0 ; A T S L P X X X X X X X X X X X
Carrier/Waybill Number  Contain  Contain  Volume  SOLID  CI	Type No. PLEAR GL 3 No. PLEAR GL 1 No. PLEAR GL 2 NO. PLEAR GL 2 N	Preservative Condition on Receipt/ None None None 1:1 HCL	H 8 2 6 S 2 1 0 S 2 1 0 S 2 1 0 S 2 1 0 S S 2 1 0 S S 2 1 0 S S 2 S S S S S S S S S S S S S S S S
SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI WATER 40mL VI	Type No. PLEAR GL 3 No. PLEAR GL 1 No. PLEAR GL 2 NO. PLEAR GL 2 N	Preservative Condition on Receipt/ None None None 1:1 HCL	S 2 1 0   Comments S L P   X X X   X X X   X X X   X X X   X X X X   X
SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI WATER 40mL VI	Type No. PLEAR GL 3 No. PLEAR GL 1 No. PLEAR GL 2 NO. PLEAR GL 2 N	Preservative Condition on Receipt/ None None None 1:1 HCL	
SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI WATER 40mL VI	Type No. PLEAR GL 3 No. PLEAR GL 1 No. PLEAR GL 2 NO. PLEAR GL 2 N	None None None	S L P
SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI SOLID 120mL CI WATER 40mL VI	Type No. PLEAR GL 3 No. PLEAR GL 1 No. PLEAR GL 2 NO. PLEAR GL 2 N	None None None	X X X X X X X X X X X X X X X X X X X
SOLID SOUND CI SOLID 120mL CI SOLID 120mL CI WATER 40mL VI	CLEAR GL 1 N CLEAR GL 2 N CLEAR GL 2 N VIAL 1 1	None None 1.1 HCL	X X X X X X X X X X X X X X X X X X X
SOLID 120mL CI SOLID 120mL CI WATER 40mL VI	CLEAR GL 2 N CLEAR GL 2 N VIAL 1 1	None None 1:1 HCL	X X X X
SOLID 120mL CI WATER 40mL VI Color 40mL Ch	CLEAR GL 2 N	None 1:1 HCL	X X X X
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Sample Disposal	əi	· · · · · · · · · · · · · · · · · · ·	
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## Project Narrative

The following report contains the analytical results for one water sample and one Trip Blank sample received at STL Denver on June 25, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

#### Supplemental QC Information

#### Sample Arrival and Receipt

The temperatures of the sample coolers upon receipt at the laboratory were 4.8°C and 0.2°C. All sample bottles were received in acceptable condition. Other samples listed on the chain of custody are reported under lot number D1F270142.

#### GC/MS Volatiles/Method 8260B

A matrix spike associated with the batch, but performed on an unrelated sample, demonstrated a recovery outside established control limits for 1,1-dichloroethene. The associated LCS and method blank were within control and no further corrective action was taken.

#### General Chemistry - Reactive Sulfide

The sample and duplicate sample results are values present at or below the reporting limit but higher than the method detection limit with an RPD of 93. The laboratory database used for reporting currently limits the reporting of results for the sample duplicate report with qualifiers and that is why the results are reporting as ND. The actual values are 8.8 for the sample result and 3.2 for the sample duplicate result.

## **EXECUTIVE SUMMARY - Detection Highlights**

### D1F250210

	PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
ARGENT	A CDP-NO 1 06/21/01 18:35	001				
	Diesel Range Organics Gasoline Range Organics Flashpoint pH		0.25 75 >160 7.5	0.25 25'  0.10	mg/L ug/L deg F No Units	SW846 8015B SW846 8015B SW846 1010 SW846 9040B

## **METHODS SUMMARY**

#### D1F250210

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040B	SW846 9040B
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3510
Pensky-Martens Method for Determining Ignitability	SW846 1010	SW846 1010
Reactive Cyanide	SW846 7.3.3 ·	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4	SW846 7.3.4
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## **METHOD / ANALYST SUMMARY**

#### D1F250210

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 1010	Roger Winn	000597
SW846 7.3.3	Ewa Kudla	001167
SW846 7.3.4	Roger Winn	000597
SW846 8015B	Erin Wobrock	000373
SW846 8015B	Mike Kellison	003852
SW846 8260B	Steve Szocik	002410
SW846 9040B	Duane Allee	001470

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

#### SAMPLE SUMMARY

#### D1F250210

WO # SA	MPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
	001 002	ARGENTA CDP-NO 1 TRIP BLANK	06/21/01 06/21/01	18:35

#### NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# Chain of Custody Record

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Client			Project Manage	) r			D	ate	T								
Maxim Technologies Inc			Brian My	ller				06/08/2001		Pa	ge_		1	,	of _		1
Address			Telephone Num	nber (Area Code).	/Fax Number		La	ab Location	$\top$								
14818 W. 6th Ave. Suite 1A			(303) 27	9-7885 / (3	03) 279-7	816	5	STL Denver					Ar	nalys	iis		
City State	Zip Code		Site Contact						M	T	TF	C	SP	TT	TI	TI	
Golden CO	80401		Brian My	ller					S	P	PL	, N I	UН				
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Argenta CDP-No 1	6-21-01	18:35	WATER	1L	AMBER	2	None -				X		$\top$				
Argenta CDP-No 1	6-21-01	18:35	WATER	40mL	VIAL	6	1:1 HCL		X	Х							
Argenta CDP-No 1	6-21-01	18135	WATER	1000mL	PLASTIC	1	None				X	X Z	ХХ				
Argenta CDP-No /2	/		MATER /	AL	AMBER	/) 2	None	/ /		//:	X		7		7	7	
Argevita CDP-No/2	/		WATER /	OmL	VAAL	/ 6	1/1 HCL	/	X	K		17				7	
Argenta CDP-NO 2	/		WATER	1000mL	PLASTIC	1	yone /		$\top$		X	X :	хх			$I \square$	
Argenta CDP-No 3	/	/	WATE	/ 1L ,	AMBER /	2	/None		7		X ,	7		7	77		$-\Delta$
Argenta CDP/No 3/	/		WATER	/ 40mL/	VIAL/	6/	1:1 HQL		/ x	X	7		7	1			
Argevita CDP-No 8	/	7	WATER	/ 1000mI/	PLASTIC	1	None/				X	X 2	$\overline{x}$		71		Z
Argenta CDP-No/4	7	7	MATER	/ 11/	AMBER	/2	None		I		¥	$\prod$	$\Delta$		$I \square$		
Argenta CDP-No 4	l/		WATER	49mL	VZAL	/ 6	1:1 HCL		X	x /			/			$\Box \Box$	
Avgenta CDP-No 4		\/	WATER /	1000mL	PLASTIC	1	Nome			$\prod$	Х	X/ :	X X	$\perp \Lambda$		$ \!$	
Argenta /CDP-No 5 /			WATER /	/1L	/AMBER /	2	None			/  :	x	II				_/_	
Argenta CDP/No 5/		/	WATER /	/40mL /	VIAL /	6	1:1 HCL		X	X	/	41		1		_[ [	
Argenta CDP-No 5		/_	WATER	#000mL/	PLASTAC	1	/ None	A				X	x x	11		Ш	
·					/		<u> </u>	/			1	Ш	$\perp$			Ш	
Special Instructions Quote 42471	8260/BTE	X/MTBE	8015B/DRO	8	015B/GRO	Igni	itability,	Reactive cyanide/sulfide			I					1	
, дн					1												
Possible Hazard Identification				Sample Disp		_		_	1	(A fe	e ma	ıy be	assc	ssed	lif sar	mplos	are
☐ Non-Hazard ☐ Flammable ☐ Skin	Irritant 🔲	Poison B	Unknow	n Return T				Archive For Months		retaii	red I	ongn	ir thai	n/3m	ionths	3)	
Turn Around Time Required			QC Level		Project 3	Specific	Requirements:	(Specify)									
□ Normal □ Rush □ Othe	er		│														
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Ware to .			6-25-01	17:20			100	us Mes			1	<u>0/</u>	25	101	11/	1/2	0
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Comments																	

# Chain of Custody Record





Severn Trent Laboratories, Inc.

STL4149 (0700)		4	¢ 0	0 5 6	9 5 -	0 0	1 *									,
Client				Project Manager	,	· · · · · · · · · · · · · · · · · · ·		Da	te	T			***		·	
Maxim Technologies Inc				Brian My	ller			0	6/08/2001		Page 1 of 1  Analysis  M S 8 2 6 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1		
Address				Telephone Num	ber (Area Code).	/Fax Number		La	b Location							
14818 W. 6th Ave. Suite 1A				(303) 27	9-7885 / (3	303) 279-	7816	S	TL Denver				Ana	lysis		
City	State	Zip Code		Site Contact						M		TT	TT		TT	TT-1-
Golden	co	80401		Brian My	ller					s		11	1 1			
Project Number/Name Carrier/Waybill Number  Durango Phase II						1 1										
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # :	150	0082			***				QUOTE: 42471	1 1						
				0 4 7	Cor	ntainers									1	
Sample I.D. Number and Description	on	Date	Time	Sample Type	Volume	Туре	No.	Preservative	Condition on Receipt/Comments	L		11				'
Trip Blank				WATER	40mL	VIAL	1	1:1 HCL		Х				11		
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Possible Hazard Identification					Sample Disp					(A	fee n	nay be	assası	sect it s	amole:	s aro
□ Non-Hazard □ Flammable	☐ Skin	Irritant 🔲	Poison B		n 🔲 Return T				Archive For Months			Honge				
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Comments	************										1			<u>.</u>		

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 11-trict III - (505) 334-6178 Rio Brazos Road c, NM 87410 مدر

District IV - (505) 827-7131

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

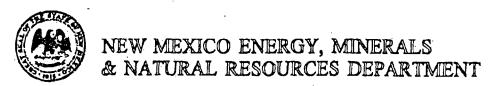
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: A0184-602

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE								
1. RCRA Exempt: Non-Exempt: Q. 26.01	4. Generator SG. Interest							
Verbal Approval Received: Yes 👿 No 🔲	5. Originating Site Sunside CD							
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eurisateck							
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colo > Nu							
7. Location of Material (Street Address or ULSTR)	NW4, Seeq, T34N, R9W La Plata Comb. Co.							
9. Circle One:	J							
B. All requests for approval to accept non-exempt wastes must be accepted.  PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:	on of origin. No waste classified hazardous by							
Drill cuttings generated deving a at a natural gas location	SEP 2001 PRECEIVED DIST. 3							
Estimated Volume 4 drums cy Known Volume (to be entered by the open								
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	<u>Manager</u> DATE: <u>9.26.01</u> EPHONE NO. 505-632-0615							
(This space for State Use)	$ah_{-1}$							
APPROVED BY: Levy tony TITLE: Geole  APPROVED BY: Levy tony TITLE: Geole	DATE: 4/27/01  DATE: 10-5-/							



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

	2. Destination Name:
S G Interests 125 E. 10th St	Envirotech Soil Remediation Facility
Durango, CO	Landarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Sunnyside CDP (NW 1/4, Sec 9, T34N, R	(9W) La Plata County, CO
	·
Attach list of originating sites as appropriate  4. Source and Description of Waste	
·	vaste were generated performing a site
assessment for potential past release	raste were generated performing a site
production activities at a gas field.	Analysis shows levels of petroleum at
17 mg/kg in soil, No other RCRA analy	tes were noted
· · · · · · · · · · · · · · · · · · ·	
Frik V Vormulan	representative for:
I, Erik K. Vermulen (Print Name)	representative for.
SG Interests / Conoco	do hereby certify that
according to the Resource Conservation and Recov	very Act (RCRA) and Environmental Protection Agency's Jul
1988, regulatory determination, the above describe	
	EMPT oilfield waste which is non-hazardous by characteristic
·	or by product identification
lysis Attached	
ing that nothing has been added to the exempt or i	non-exempt non-hazardous waste defined above.
and that nothing has been added to the exempt or i	non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documen	ntation is attached (check appropriate items):
For NON-EXEMPT waste the following documen MSDS Information	
For NON-EXEMPT waste the following documen  MSDS Information RCRA Hazardous Waste Analysis	ntation is attached (check appropriate items):
For NON-EXEMPT waste the following documen MSDS Information	ntation is attached (check appropriate items):
For NON-EXEMPT waste the following documen  MSDS Information RCRA Hazardous Waste Analysis	ntation is attached (check appropriate items):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ntation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of RONA Regulated Levels of Rona RONA Regulated Levels of Ron	ntation is attached (check appropriate items): Other (description):
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SEP 06 2001 08:52



First-Class Mail Postage & Fees Paid USPS Permit No. G-10

· Sender: Please print your name, address, and ZIP+4 in this Dox ·

MAXIM Technologies

ERIK VERMALENI
14818 W 62 Au, SIE 1-A

GHOW CO SOYOI

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<ul> <li>SENDER: COMPLETE THIS SECTION</li> <li>Complete items 1, 2, and 3. Also complete item 4-if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Received by (Please Print Clearly)  B. Date of Delivery SEP 1 3 2001  C. Signature  X  Addressee  D. Is delivery address different from item 1? Yes
1. Article Addressed to: College ADO 0,7 & Grs Commission 11 20 Cincoln 5; She 80(	
Denver Cd 80203	3. Service Type  Certified Mail  Express Mail  Registered  Return Receipt for Merchandise  C.O.D.
	4. Restricted Delivery? (Extra Fee)
2. Article Number (Copy from servic 7001 1140	7103 9307 COCO



W. 6<sup>th</sup> Ave. Suite 1-A Golden, CO 80401-5009

Telephone: (303) 279-7885 Facsimile: (303) 279-7816

12 September 2001

Colorado Oil and Gas Conservation Commission Attn: Ms Debbie Baldwin 1120 Lincoln St, Ste 801 Denver, CO 80203

Subject: Notification of Anticipated Investigative Derived Waste (IDW) Disposal (Sunnyside CDP – Four Drums)

Dear Ms Baldwin,

Maxim Technologies performed services as the representative of SG Interests in the anticipated sale of a gas field in La Plata County, CO during the period June and July 2001. As part of the due diligence for this anticipated sale, the potential buyer requested we conduct below ground assessments of any soil or ground water that may have been contaminated in association with previous exploration and production operations. Maxim performed shallow borings (15 to 48' BGS) of surface soils; soil samples were collected from least three intervals where the field geologist observed any potential contamination. If initial ground water was encountered, a monitoring well was installed and a water sample collected. All cuttings and development water were drummed for disposal.

We are proposing to remove four drums of IDW from the Sunnyside location at the NW1/4, Sec. 9 of T34N, R9W to the New Mexico EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, NM. The IDW is understood to be exempt waste secondary to the exploration and production of petroleum products. Attached are the sample chain of custody form and the summary of the analytical results on the subject IDW. Diesel range organics were detected at 17 mg/kg in one sample; no results exceeded the COGCC criteria for any analyte.

The sponsors of this due diligence effort have requested that the IDW be disposed of at properly licensed facilities regardless of the unregulated levels of measured contaminates. This letter is provided as a courtesy to provide COGCC staff appropriate notification of the intended disposition of the subject IDW.

Sincerely

MAXIM TECHNOLOGIES, INC.

Erik K. Vermulen Office Manager

# Project Narrative D1F270132

The following report contains the analytical results for eleven soil samples received at STL Denver on June 25, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

#### **Supplemental QC Information**

#### Sample Arrival and Receipt

The temperatures of the sample coolers upon receipt at the laboratory were 4.8°C. All sample bottles were received in acceptable condition.

A Trip Blank sample was not received at the laboratory. After communication with the client the laboratory was told that the sample was not required.

#### GC Volatiles - Method 8021B

No anomalies were observed.

#### GC/MS Volatiles – Method 8260B

The CCV recoveries for Carbon Disulfide, and 2-Chlorovinylether exceeded their established control limits. The overall mean recovery was within the control limits and the CCV was therefore in control. The associated samples were non-detect for the affected compounds.

#### Supplemental QC Information D1F270132 (continued)

The MSD for sample Sunnyside CDP-NO.1-1 demonstrated recoveries for chlorobenzene and trichloroethene below the established control limits. It is not clear that this was due to matrix interference. The associated LCS and Method Blank were within control limits. Data was accepted.

### GC Semi-volatiles - Method 8015B

The recoveries and RPD for the batch MS/MSD were not calculated, since the were diluted beyond the quantification level due to interference from a non-target compound(s)

No other anomalies were observed.

#### TCLP Lead – Method 6010B

No anomalies were observed.

# **EXECUTIVE SUMMARY - Detection Highlights**

### D1F270132

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
SUNNYSIDE CDP-NO.1-2 06/19/01 12:30	002				
Diesel Range Organics	17	10	mg/kg	SW846 8015B	

### **METHODS SUMMARY**

#### D1F270132

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3550B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatiles by GC	SW846 8021B	SW846 5030

#### References:

SW846

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## **METHOD / ANALYST SUMMARY**

#### D1F270132

ANALYTICA METHOD	AL .	ANALYST	ANALYST ID
SW846 601	10B	Lynn-Anne Trudell	006645
SW846 801	.5B	Erin Wobrock	000373
SW846 802	21B	Shawn Hadley	060376
SW846 826	50B	Mark McDaniel	000998
Reference	es:		
SW846	"Test Methods for	Evaluating Solid Waste, F	Physical/Chemical

Methods", Third Edition, November 1986 and its updates.

### **SAMPLE SUMMARY**

#### D1F270132

WO_#_	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EFKE1	001	SUNNYSIDE CDP-NO.1-1	06/19/01	11:50
EFKE8	002	SUNNYSIDE CDP-NO.1-2	06/19/01	12:30
EFKFR	003	SUNNYSIDE CDP-NO.1-3	06/19/01	13:10
EFKFW	004	SUNNYSIDE CDP-NO.2-1	06/19/01	14:50
EFKFX	005	SUNNYSIDE CDP-NO.2-2	06/19/01	15:50
EFKF1	006	SUNNYSIDE CDP-NO.2-3	06/19/01	16:50
EFKF4	007	SUNNYSIDE CDP-NO.3-1	06/20/01	09:45
EFKF8	008	SUNNYSIDE CDP-NO.3-2	06/20/01	10:40
EFKF9	009	SUNNYSIDE CDP-NO.3-3	06/20/01	11:10
EFKGG	010	SUNNYSIDE CDP-NO.1-4	06/19/01	13:50
EFKGH	011	SUNNYSIDE COMPOSITE ,	06/20/01	11:20

#### NOTE(S)

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## Chain of Custody Record

	CHAIN	OF	CUST	ODY	NUMBER	
	_					

7.0 SEVERN 73999

CR TRENT

6/25 SERVICES Severn Trent Laboratories, Inc.

STL4149 (0700)	•	* 0	0 5 6	9 4 -	0 0 1 9	<b>k</b>								
Client			Project Manager	r		Date	Τ.							
Maxim Technologies Inc			Brian My	ller		06/08/2001 Pag				1	<u>L</u> 0:	f	1	
Address			Telephone Num	ber (Area Code)/	Fax Number	Lab Location								
14818 W. 6th Ave. Suite 1A			(000)	STL Denver				A	nalysis	,				
City State	Zip Code		Site Contact						М 8			TT		
Golden CO	80401		Brian My	ller				P	S O	/ T	11			
Project Number/Name			Carrier/Waybill 1	Vumber					8 2					
Durango Phase II								s	2 1	. 0				
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Sunnyeide CDP-No.1-1	A		GOLID	500mL	GLEAR GL	1 None	And the state of t		,,,,,	X				
Sunnyside CDP-No.1-2	6-19-01	12:30	SOLID	120mL	CLEAR GL	2 None		X	Х					
Sunnyside CDP-No.1-3	6-19-01	13:10	SOLID	120mL	CLEAR GL	2 None		X	Х		$\Box$			
Sunnyside CDP-No.2-1	6-19-01	14:50	SOLID	120mL	CLEAR GL	3 None		X	X X	$\cdot \top \top$				
- Sunnyside CDP No.2 1		-	SOLID	500mL	GLEAR-OL	1 None				X				
Sunnyside CDP-No.2-2	6-19-01	15:50	SOLID	120mL	CLEAR GL	2 None		x	X X					
Sunnyside CDP-No.2-3	6-19-01	16:50	SOLID	120mL	CLEAR GL	2 None		Х	X X	. 1				
Sunnyside CDP-No.3-1	6.20.01	9:45	SOLID	120mL	CLEAR GL	3 None		Х	XX	.				
-Sunnyside CDP-No.9-1			SOLID	500mL	CLEAR GL	1 Nona				Х-				
Sunnyside CDP-No.3-2	6-20-01	10:40	SOLID	120mL	CLEAR GL	2 None		Х	X X	.TT				
Sunnyside CDP-No.3-3	6-20-01	11:10	SOLID	120mL	CLEAR GL	2 None		X	хх	. 🔣				
Trip Blank		ļ. <u></u>	WATER	40mL	VIAL	1 1:1 HCI			X					
Sunnyside CDP-No. 1-4	6-19-01	13:50	Solve	Your	Clear OL	None		X	XX	1				
									$\perp$					
Sunnyade Comparite	6-20-01		K1 02	80mL	Charal 2	None		<u> -</u>  -		X				
Special Instructions Quote 4247	1 8260B/BTE	X/MTBE	8015B/DRO	8	021B/Halocar	bons 6010	DB/TCLP Lead							
Possible Hazard Identification				Sample Disp	osal		· · · · · · · · · · · · · · · · · · ·	(4	Δ έρρ	may	bo ass	essed i	f sama	les are
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Comments														

# Project Narrative

The following report contains the analytical results for two water samples and a Trip Blank received at STL Denver on June 25, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

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The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

#### Supplemental QC Information

#### Sample Arrival and Receipt

The temperatures of the sample coolers upon receipt at the laboratory were 4.8°C and 0.2°C. All sample bottles were received in acceptable condition. The laboratory did not receive a bottle for the required pH analysis on Sunnyside CDP-No.3. The sample volume required to perform the pH analysis was taken from a split from one of the DRO bottles received.

#### GC Semivolatile – DRO

The MS/MSD pair could not be performed for batch 1178201 due to insufficient sample volume. The water samples Sunnyside CDP – No. 2 and Sunnyside CDP – No. 3 were analyzed with this batch. An acceptable duplicate LCS (LCSD) was analyzed to provide evidence of batch precision.

### General Chemistry - Reactive Sulfide

The sample and duplicate sample results are values present at or below the reporting limit but higher than the method detection limit with an RPD of 93. The laboratory database used for reporting currently limits the reporting of results for the sample duplicate report with qualifiers and that is why the results are reporting as ND. The actual values are 8.8 for the sample result and 3.2 for the sample duplicate result.

# **EXECUTIVE SUMMARY - Detection Highlights**

## D1F260272

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SUNNYSIDE CDP - NO. 2 06/20/01 10:20	001			
Flashpoint pH	>160 7.6	0.10	deg F No Units	SW846 1010 SW846 9040B
SUNNYSIDE CDP - NO. 3 06/22/01 09:10	002			
Flashpoint	>160	~ -	deg F	SW846 1010
рН	7.5	0.10	No Units	SW846 9040B

## **METHODS SUMMARY**

#### D1F260272

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040B	SW846 9040B
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3510
Pensky-Martens Method for Determining Ignitability	SW846 1010	SW846 1010
Reactive Cyanide	SW846 7.3.3	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4	SW846 7.3.4
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
Volatile Petroleum Hydrocarbons	SW846 8015B	SW846 5030

#### References:

SW846

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# METHOD / ANALYST SUMMARY

#### D1F260272

ANALYTICAL		ANALYST
METHOD	ANALYST	ID
SW846 1010	Roger Winn	000597
SW846 7.3.3	Ewa Kudla	001167
SW846 7.3.4	Roger Winn	000597
SW846 8015B	Erin Wobrock	000373
SW846 8015B	Justin M. Chappell	001380
SW846 8015B	Mike Kellison	003852
SW846 8260B	Mike Armstrong	002544
SW846 9040B	Duane Allee	001470

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

### **SAMPLE SUMMARY**

#### D1F260272

WO_#S	SAMPLE!	CLIENT SAMPLE ID	SAMPLED SAMP DATE TIME
EFJNT	001	SUNNYSIDE CDP - NO. 2	06/20/01 10:20
EFJNX	002	SUNNYSIDE CDP - NO. 3	06/22/01 09:10
EFJN0	003	TRIP BLANK	06/22/01
NOTE (S)	:		

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# Chain of Custody Record





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Client				Project Manager Date														
Maxim Technologies Inc				Brian Myller					06/08/2001 Pa				Page of					
Address				Telephone Number (Area Code)/Fax Number Lab Location					Location									
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City	State	Zip Code		Site Contact						M	T :	F	SS	P			III	
Golden	co	80401		Brian My	ller					s	P	) L	ן ט	н				
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Sunnyside CDP - No ⅓ ₹		6/26/01		WATER	4 0 m L	VIAL	6	1:1 HCL		X	Х							
	<i>`</i> 20	6/2/2/01	A:10	WATER	1000mL	PLASTIC	1	None				X	X	Х				
	4/3	1/22/01	9:45	WATER	1L	AMBER	2	None										
Sunnyside CDP - No.%, プ	860	6/12/01		<del></del>	4 Om I.	VIAL	6	1:1 HCL		Х	x	$\perp \perp$	$\perp \downarrow$					
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DISTRIBUTION: WHITE - Stays with the Sample: CANARY - Roturned to Client with Report: PINK - Field Copy

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

Rio Brazos Road

District IV - (505) 827-7131

د. NM 87410

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

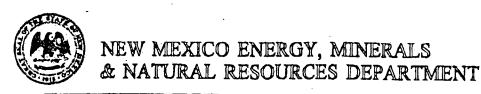
New Mexico

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>A0184-002</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Q.26.01	4. Generator SG Interests
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Bonded well to
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Esuiva feel Tric
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Calo -> NM.
7. Location of Material (Street Address or ULSTR)	HE Ky, See B, T34H, RIOW LA Plata Count Co.
9. Circle One:	, <b>, , , , , , , , , , , , , , , , , , </b>
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Drill cuttings gon worted dering at a natural gas well location	SEP 2001  RECEIVED 73  OIL OON. DIV  DIST. 3
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 9.26.01  EPHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: Deny from TITLE: Geolog	7 /



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
SG Interests	Envirotech Soil Remediation Facility
125 E 10th St	Landarm #2
Durango, CO 81302	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Bondad Well #102, (NE 1/4, Sec 8, 7	T34N, R10W) La Plata County CO
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
potential releases for gas field $\epsilon$	rom a due diligence investigation of past exploration adn production. Analyses indicated detection level for any RCRA analyte.
F	·
Erik K. Vermulen	representative for:
SG Interests / Conoco	do hereby certify that,
SG Interests / Conoco according to the Resource Conservation and Re 1988, regulatory determination, the above desc  X EXEMPT oilfield waste NON	do hereby certify that, ecovery Act (RCRA) and Environmental Protection Agency's July,
SG Interests / Conoco according to the Resource Conservation and Re 1988, regulatory determination, the above desc  X EXEMPT oilfield waste NON analy	do hereby certify that, ecovery Act (RCRA) and Environmental Protection Agency's July, ribed waste is: (Check appropriate classification)  -EXEMPT cilfield waste which is non-hazardous by characteristic
SG Interests / Conoco according to the Resource Conservation and Re 1988, regulatory determination, the above desc  X EXEMPT cilfield waste	do hereby certify that ecovery Act (RCRA) and Environmental Protection Agency's July ribed waste is: (Check appropriate classification)  -EXEMPT dilfield waste which is non-hazardous by characteristic riss or by product identification  or non-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items): Other (description):
SG Interests / Conoco according to the Resource Conservation and Re 1988, regulatory determination, the above desc  X EXEMPT oilfield waste	do hereby certify that ecovery Act (RCRA) and Environmental Protection Agency's July ribed waste is: (Check appropriate classification)  -EXEMPT cilifield waste which is non-hazardous by characteristic rsis or by product identification  or non-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items): Other (description): sis
SG Interests / Conoco according to the Resource Conservation and Re 1988, regulatory determination, the above desc  X EXEMPT oilfield waste NON analy and that nothing has been added to the exempt  For NON-EXEMPT waste the following document of the many of the many of the conocine	do hereby certify that ecovery Act (RCRA) and Environmental Protection Agency's July ribed waste is: (Check appropriate classification)  -EXEMPT cilifield waste which is non-hazardous by characteristic rsis or by product identification  or non-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items): Other (description): sis
SG Interests / Conoco according to the Resource Conservation and Resou	do hereby certify that ecovery Act (RCRA) and Environmental Protection Agency's July ribed waste is: (Check appropriate classification)  -EXEMPT dilfield waste which is non-hazardous by characteristic riss or by product identification  or non-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items): Other (description):

SEP 06 2001 08:52

# Certificate From Southern Ute Indian Tribe Authorizing Removal of RCRA Exempt, Non-Toxic, oilfield Waste From their Jurisdiction

I have reviewed the information concerning the Exempt, Non-toxic oilfield waste material (one drum of Investigative Derived Waste) from SG Interests' Bondad #102 location at NE1/4, Sec. 8 of T34N,R10W and agree that by its description it is non-hazardous as defined by the Resource Conservation and Recovery Act (RCRA) and by my jurisdiction's rules, regulations or statutes.

The material is Exempt oilfield waste.

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The material is Non-hazardous by regulatory definition.

#### THEREFORE:

As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed for treatment to EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, New Mexico.

Transportation of this waste may be subject to other state and Federal laws. The Southern Ute Indian Tribe accepts no liability associated with the disposal of this waste.

Name: Fran King Brown

Title: Head of Environmental Programs Division

Signature:

Southern Ute Indian Tribe

Agency: Address:

P. O. Box 737, Ignacio, CO 81137

Phone:

(970) 563-0135 fax 563-0384



1. *N*. 6<sup>th</sup> Ave. Suite 1-A Golden, CO 80401-5009

Telephone: (303) 279-7885 Facsimile: (303) 279-7816

12 September 2001

Southern Ute Indian Tribe Environmental Division Attn: Ms Fran King Brown Tribal Annex Building Ignacio, CO 81137

Subject: Notification of Anticipated Investigative Derived Waste (IDW) Disposal (Bondad 102–One Drum)

Dear Ms King Brown,

Maxim Technologies performed services as the representative of SG Interests in the anticipated sale of a gas field in La Plata County, CO during the period June and July 2001. As part of the due diligence for this anticipated sale, the potential buyer requested we conduct below ground assessments of any soil or ground water that may have been contaminated in association with previous exploration and production operations. Maxim performed shallow borings (15 to 48' BGS) of surface soils; soil samples were collected from least three intervals where the field geologist observed any potential contamination. If initial ground water was encountered, a monitoring well was installed and a water sample collected. All cuttings and development water were drummed for disposal.

We are proposing to remove one drum of IDW from the Bondad # 102 location at the NE1/4, Sec. 8 of T34N, R10W to the New Mexico EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, NM. The IDW is understood to be exempt waste secondary to the exploration and production of petroleum products. Attached are the sample chain of custody form and the summary of the analytical results on the subject IDW. No results exceeded the COGCC criteria or the detection limit for any analyte.

The sponsors of this due diligence effort have requested that the IDW be disposed of at properly licensed facilities regardless of the unregulated levels of measured contaminates. This letter is provided as a courtesy to provide COGCC staff appropriate notification of the intended disposition of the subject IDW.

Sincerely

MAXIM TECHNOLOGIES, INC.

Erik K. Vermulen Office Manager

# Project Narrative

The following report contains the analytical results for five soil samples received at STL Denver on June 25, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

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The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

#### **Supplemental QC Information**

#### Sample Arrival and Receipt

The temperature of the sample cooler upon receipt at the laboratory was 0.2 and 4.8°C. All sample bottles were received in acceptable condition.

A Trip Blank sample was not received at the laboratory. After communication with the client the laboratory was told that the sample was not required.

#### GC/MS Volatiles – Method 8260B

The recovery for surrogate compound 1,2-Dichloroethane-d4 exceeded established control limits. All target compounds were non-detect. Any hits would be biased high. Since the target compounds are "ND" no further action was taken.

The MS and/or MSD percent recoveries on an unrelated sample (prep batch 1187459) were outside established control limits. The associated LCS and Method Blank were within control limits. Data was accepted.

#### GC Semi-volatiles - Method 8015B

Sample "BONDAD #102-NO.1-1" could not be concentrated below 5 mL due to the presence of interfering non-target compounds. The Method requires concentration down to 1.0 mL. The sample was also analyzed at a dilution for these same non-target compounds. The reporting limits are raised relative to the dilutions performed and the final concentration of the sample. Surrogate recoveries were diluted below reportable limits. The associated LCS and Method Blank were within control limits. Data was accepted.

The recoveries and RPD for the batch MS/MSD were not calculated, since the were diluted beyond the quantification level due to interference from a non-target compound(s)

No other anomalies were observed.

GC Volatiles - Method 8021B

No anomalies were observed.

TCLP Lead - Method 6010B

No anomalies were observed.

# **EXECUTIVE SUMMARY - Detection Highlights**

PARAMETER RESULT LIMIT UNITS METHOD METHOD

NO DETECTABLE PARAMETERS

## **METHODS SUMMARY**

#### D1F270115

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3550B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatiles by GC	SW846 8021B	SW846 5030

#### References:

SW846

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

### **METHOD / ANALYST SUMMARY**

#### D1F270115

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 6010B	Lynn-Anne Trudell	006645
SW846 8015B	Erin Wobrock	000373
SW846 8021B	Shawn Hadley	060376
SW846 8260B	Steve Szocik	002410

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# Chain of Custody Record

CHAIN OF CUSTODY NUMBER

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

T'-trict III - (505) 334-6178

Rio Brazos Road

APPROVED BY:

c, NM 87410 مندر

Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

Santa Fe, New Mexico 87505 (505) 827-7131

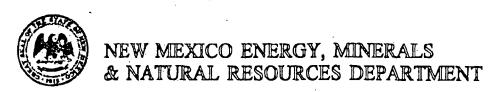
New Mexico

Form C-138 Originated 8/8/95

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District IV - (505) 827-7131	Env. JN: <u>A0184-202</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: No	4. Generator SGTW frest s
Verbal Approval Received: Yes 🔀 No 🗍	5. Originating Site Spring Gules
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colo > NM
7. Location of Material (Street Address or ULSTR)	NWY, Sec17, T34A, RIDW
9. Circle One:	. · · · · · · · · · · · · · · · · · · ·
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept denotor; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Drill cuttings associated w/P	hase II wurstreetien
Drill cuttings associated w/P  @ Natural gas well location  Estimated Volume 4 drings cy Known Volume (to be entered by the op	SEP 2001 RECEIVED NO DIST. 3
Estimated volume cy Known volume (to be entered by the op-	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Manager DATE: 9.26.01  EPHONE NO. 505-632-0615
(This space for State Use)	·



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name: Envirotech Soil Remediation Facility
SG Interests	
125 E. 10th St	Landarm #2 Hilltop, New Mexico
Durango, CO 81302	
3. Orlginating Site (name):	Location of the Waste (Street address &/or ULSTR):
Spring Gulch CDP (NW 1/4, Sec 12, T34)	N, R 10W) La Plata County, CO
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Four drums of investigative waste wer	e generated in a due diligence assessment
of potenital past releases of petrole	eum hydrocarbons from exploration and
production at a gas field. Analyses	show petroleum levels between 10 and 38
mg/kg and no other RCRA analytes dete	ected
	•
Erik K. Vermulen	
	representative for:
SG Interests / Conoco according to the Resource Conservation and Recov	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July,
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield wasteNON-EXE	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July,
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield waste NON-EXE analysis of	do hereby certify that, lery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)  EMPT dilfield waste which is non-hazardous by characteristic or by product identification
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield waste NON-EXE analysis of the exempt or n	do hereby certify that, rery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)  EMPT dilfield waste which is non-hazardous by characteristic or by product identification  son-exempt non-hazardous waste defined above.
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield waste NON-EXE analysis of and that nothing has been added to the exempt or nothing has been added to the exempt of the	do hereby certify that, rery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)  EMPT cilifield waste which is non-hazardous by characteristic or by product identification  con-exempt non-hazardous waste defined above.  tation is attached (check appropriate items):
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield waste NON-EXE analysis of the monthing has been added to the exempt or not the month of th	do hereby certify that, rery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT cilifield waste which is non-hazardous by characteristic or by product identification  con-exempt non-hazardous waste defined above.
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield waste NON-EXE analysis of the exempt or not not not not not not not not not not	do hereby certify that, rery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)  EMPT cilifield waste which is non-hazardous by characteristic or by product identification  con-exempt non-hazardous waste defined above.  tation is attached (check appropriate items):
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield waste NON-EXE analysis of and that nothing has been added to the exempt or no For NON-EXEMPT waste the following document MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	do hereby certify that, rery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)  EMPT dilfield waste which is non-hazardous by characteristic or by product identification  son-exempt non-hazardous waste defined above.  tation is attached (check appropriate items):  Other (description):
SG Interests / Conoco according to the Resource Conservation and Recov 1988, regulatory determination, the above described  X EXEMPT oilfield waste	do hereby certify that, rery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)  EMPT dilfield waste which is non-hazardous by characteristic or by product identification  con-exempt non-hazardous waste defined above.  tation is attached (check appropriate items):  Other (description):
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SG Interests / Conoco according to the Resource Conservation and Recove 1988, regulatory determination, the above described  X EXEMPT oilfield waste	do hereby certify that, rery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)  EMPT dilfield waste which is non-hazardous by characteristic or by product identification  con-exempt non-hazardous waste defined above.  tation is attached (check appropriate items):  Other (description):

# Certificate From Southern Ute Indian Tribe Authorizing Removal of RCRA Exempt, Non-Toxic, oilfield Waste From their Jurisdiction

I have reviewed the information concerning the Exempt, Non-toxic oilfield waste material (four drums of Investigative Derived Waste) from SG Interests' Spring Gulch CDP location at NE1/4, Sec. 12 of T34N,R10W and agree that by its description it is non-hazardous as defined by the Resource Conservation and Recovery Act (RCRA) and by my jurisdiction's rules, regulations or statutes.

- The material is Exempt oilfield waste.
- The material is Non-hazardous by regulatory definition.

#### THEREFORE:

As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed for treatment to EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, New Mexico.

Transportation of this waste may be subject to other state and Federal laws. The Southern Ute Indian Tribe accepts no liability associated with the disposal of this waste.

Name: Fran King Brown

Title: Head of Environmental Programs Division

Signature:

Southern Ute Indian Tribe

Agency: Sou Address: P. 0

P. O. Box 737, Ignacio, CO 81137

Phone:

(970) 563-0135 fax 563-0384

Date: 9-12-01



W. 6<sup>th</sup> Ave. Suite 1-A Golden, CO 80401-5009

Telephone: (303) 279-7885 Facsimile: (303) 279-7816

12 September 2001

Southern Ute Indian Tribe Environmental Division Attn: Ms Fran King Brown Tribal Annex Building Ignacio, CO 81137

Subject: Notification of Anticipated Investigative Derived Waste (IDW) Disposal (Spring Gulch CDP – Four Drums)

Dear Ms. King Brown,

Maxim Technologies performed services as the representative of SG Interests in the anticipated sale of a gas field in La Plata County, CO during the period June and July 2001. As part of the due diligence for this anticipated sale, the potential buyer requested we conduct below ground assessments of any soil or ground water that may have been contaminated in association with previous exploration and production operations. Maxim performed shallow borings (15 to 48° BGS) of surface soils; soil samples were collected from least three intervals where the field geologist observed any potential contamination. If initial ground water was encountered, a monitoring well was installed and a water sample collected. All cuttings and development water were drummed for disposal.

We are proposing to remove four drums of IDW from the Spring Gulch location at the NW1/4, Sec. 12 of T34N, R10W to the New Mexico EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, NM. The IDW is understood to be exempt waste secondary to the exploration and production of petroleum products. Attached are the sample chain of custody form and the summary of the analytical results on the subject IDW. Diesel range organics were detected between 10 and 38 mg/kg in six soil samples; no results exceeded the COGCC criteria for any analyte.

The sponsors of this due diligence effort have requested that the IDW be disposed of at properly licensed facilities regardless of the unregulated levels of measured contaminates. This letter is provided as a courtesy to provide SUIT staff appropriate notification of the intended disposition of the subject IDW.

Sincerely

MAXIM TECHNOLOGIES, INC.

Erik K. Vermulen Office Manager

# Project Narrative

The following report contains the analytical results for seven soil samples received at STL Denver on June 25, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. Any exceptions are noted below.

#### Supplemental QC Information

#### Sample Arrival and Receipt

The temperature of the sample cooler upon receipt at the laboratory was 4.8°C. All sample bottles were received in acceptable condition.

The chain of custody documentation indicated that a Trip Blank sample was received at the laboratory and was not received. After communication with the client the laboratory was told that the sample was not required.

The chain of custody documentation indicated that a various number of containers were received for the samples listed for each specific analysis requested. All of the samples except for the composite sample were received with insufficient sample volume. The samples were sub sampled at the laboratory to allow for adequate sample volume to perform the analysis.

#### GC/MS Volatiles – Method 8260B

The MS/MSD recovery for all of the spiked compounds was outside the established control limits. Repeated analysis confirms clear evidence of matrix interference. All other calibration and QC criteria were met.

## **EXECUTIVE SUMMARY - Detection Highlights**

#### D1F270157

	PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SPRING	GULTCH-NO.1-1 06/18/01 11:30	001			
	Diesel Range Organics	38	10	mg/kg	SW846 8015B
SPRING	GULTCH-NO.1-2 06/18/01 11:00	002			
	Diesel Range Organics	12	10	mg/kg	SW846 8015B
SPRING	GULTCH-NO.1-3 06/18/01 12:00	003			,
	Diesel Range Organics	31	10	mg/kg	SW846 8015B

#### **METHODS SUMMARY**

#### D1F270157

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B	SW846 3550B
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Volatile Organics by GC/MS	SW846 8260B	SW846 5030
Volatiles by GC	SW846 8021B	SW846 5030

#### References:

SW846

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

#### **METHOD / ANALYST SUMMARY**

#### D1F270157

ANALYTICAL METHOD	ANALYST	ANALYST ID
1111100	11111111	
SW846 6010B	Lynn-Anne Trudell	006645
SW846 8015B	Erin Wobrock	000373
SW846 8021B	Shawn Hadley	060376
SW846 8260B	Mark McDaniel	000998

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

#### **SAMPLE SUMMARY**

#### D1F270157

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
EFKKX EFKK3 EFKK5 EFKK8 EFKLA EFKLD EFKLF	001 002 003 004 005 006	SPRING SPRING SPRING SPRING SPRING	GULTCH-NO.1-1 GULTCH-NO.1-2 GULTCH-NO.1-3 GULTCH-NO.2-1 GULTCH-NO.2-2 GULTCH-NO.2-3 GULTCH-COMPOSITE	06/18/01 06/18/01 06/18/01 06/18/01 06/18/01 06/18/01	11:00 12:00 16:40 17:10 17:40

#### NOTE (S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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Address					Telephone Nun	ber (Area Code).	/Fax Number		Ĺ.	ab Location	$\top$									_
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Spring Gultch-No.1-2		6-18-		11:00	SOLID	120mL	CLEAR GL	2	None		X	Х	+	11	++			11		
Spring Gultch-No.1-3		6-18-		12:00	SOLID	120mL	CLEAR GL	2	None		x	x	7	11	1-1		T	11	11	
Spring Gultch-No.2-1		6-18-		16:40		120mL	CLEAR GI	3	None		x	Х.	x	11			11	1		
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TRIP BLANK				-	WATER	40mL	VIAL	1	1:1 HCL				X	$\Box$	$\top$		$\sqcap$	$\top$		
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Spring Gulch Composite	•	6-18-0	7	17:50	Solid	80mL	ClearGL	2	None		1	$\Box$	X	1	77				$\Box$	
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Special Instructions Quote	42471	8260B	/BTE	X/MTBE	8015B/DRO	8	021B/Halo	carbo	ns 6010B,	/TCLP Lead										
Possible Hazard Identification			<del></del>	·	<del> </del>	Sample Disp	osal													_
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## Project Narrative

The following report contains the analytical results for fifteen water samples received at STL Denver on July 16, 2001 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The test results shown in this report meet all requirements of NELAC. STL Denver is NELAP approved for all parameters reported. Any exceptions are noted below.

#### Supplemental QC Information

#### Sample Arrival and Receipt

The temperatures of the sample coolers upon receipt at the laboratory were 1.4°C, 3.0°C and 0.5°C. All sample bottles were received in acceptable condition.

#### GC/MS Volatiles – Method 8260B

The MS/MSD recoveries for trichloroethene were outside the established control limits on the unrelated laboratory QC sample associated with the batch. Due to the saturation of trichloroethene present at levels that exceed the calibration range, the measured amounts are estimated and could not be evaluated accurately. The spike and duplicate spike recoveries for sample D1G170160-005 were all within the established control limits. All calibration and QC criteria were met.

#### GC Semivolatile - Method 8015B DRO

The MS/MSD recoveries for the unrelated laboratory QC samples are diluted out due to the presence of interfering non-target compounds, which result in elevated reporting limits. The reporting limits are adjusted relative to the required dilution. Surrogate recoveries are not calculated due to the required dilutions.

The method required MS/MSD could not be performed for batch (1203115) due to insufficient sample volume. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

#### General Chemistry – Method SW846 7.3.4 Reactive Sulfide

The sample and duplicate sample results are values present at or below the reporting limit but higher than the method detection limit with an RPD of 200. The laboratory database used for reporting currently limits the reporting of results for the sample duplicate report with qualifiers and that is why the results are reporting as ND.

## **EXECUTIVE SUMMARY - Detection Highlights**

D1G170160

	PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SPRING	G GULCH NO. 3 07/15/01 15:15 00	1			
	Flashpoint pH	>160 7.7	0.10	deg F No Units	
ARGENT	TA UTB #2 WDW-NO. 3 07/15/01 11:	30 003			
•	Flashpoint pH	>160 7.3	0.10	deg F No Units	
ARGENT	TA UTE #2 WDW-NO.3-1(10-11)B 07/	14/01 13:00	007		
	Diesel Range Organics	28	10	mg/kg	SW846 8015B
SPRING	G GULCH-NO.3-1 (40-41) A 07/14/01	08:00 010			
	Diesel Range Organics	13	10	mg/kg	SW846 8015B
SPRING	G GULCH-NO.3-1 (40-41)B 07/14/01	08:00 012			
	Diesel Range Organics	18	10	mg/kg	SW846 8015B
SPRING	GULCH-NO.3-2(10-11) 07/13/01 1	5:45 013			
	Diesel Range Organics	10	10	mg/kg	SW846 8015B

#### **METHODS SUMMARY**

#### D1G170160

PARAMETER	ANALYT METHOL		PREPAI METHO	RATION D
pH Aqueous	SW846	9040B	SW846	9040B
Extractable Petroleum Hydrocarbons	SW846	8015B	SW846	3510
Extractable Petroleum Hydrocarbons	SW846	8015B	SW846	3550B
Pensky-Martens Method for Determining Ignitability	SW846	1010	SW846	1010
Reactive Cyanide	SW846	7.3.3	SW846	7.3.3
Reactive Sulfide	SW846	7.3.4	SW846	7.3.4
Trace Inductively Coupled Plasma (ICP) Metals	SW846	6010B	SW846	1311/3010
Volatile Organics by GC/MS	SW846	8260B	SW846	5030
Volatile Organics by GC/MS	SW846	8260B	SW846	5030B/826
Volatile Petroleum Hydrocarbons	SW846	8015B	SW846	5030
Volatiles by GC	SW846	8021B	SW846	5030

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

#### **METHOD / ANALYST SUMMARY**

#### D1G170160

ANALYTICAL		ANALYST
METHOD	ANALYST	ID_
G110.4.6. 1.0.1.0	Para 17.	000505
SW846 1010	Roger Winn	000597
SW846 6010B	Lynn-Anne Trudell	006645
SW846 7.3.3	Ewa Kudla	001167
SW846 7.3.4	Roger Winn	000597
SW846 8015B	Erin Wobrock	000373
SW846 8015B	Shawn Hadley	060376
SW846 8021B	Shawn Hadley	060376
SW846 8260B	Dan Appelhans	001008
SW846 8260B	Mike Armstrong	002544
SW846 9040B	Duane Allee	001470

#### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

#### **SAMPLE SUMMARY**

#### D1G170160

<u>WO #</u>	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EGFWX	001	SPRING GULCH NO. 3	07/15/01	15:15
EGFOM	002	TRIP BLANK	07/15/01	15:15
EGFOV	003	ARGENTA UTE #2 WDW-NO. 3	07/15/01	11:30
EGF1E	004	TRIP BLANK	07/15/01	11:30
EGF1H	005	ARGENTA UTE #2 WDW-NO.3-1(10-11)A	07/14/01	13:00
EGF18	006	ARGENTA UTE #2 WDW-NO.3-1COMP.	07/14/01	17:00
EGF2G	007	ARGENTA UTE #2 WDW-NO.3-1(10-11)B	07/14/01	13:00
EGF21	800	ARGENTA UTE #2 WDW-NO.3-2(5-6)	07/14/01	12:30
EGF25	009	ARGENTA UTE #2 WDW-NO.3-3(20-21)	07/14/01	15:00
EGF26	010	SPRING GULCH-NO.3-1(40-41)A	07/14/01	08:00
EGF3T	011	SPRING GULCH-NO.3-1COMPOSITE	07/14/01	09:30
EGF31	012	SPRING GULCH-NO.3-1(40-41)B	07/14/01	08:00
EGF32	013	SPRING GULCH-NO.3-2(10-11)	07/13/01	15:45
EGF35	014	SPRING GULCH-NO.3-3 (15-16)	07/13/01	16:30
EGF36	015	ARGENTA UTE #2 WDW #4(5-6)	07/14/01	18:00

#### NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

### c3 Chain of Custody Record

Severn Trent Laboratories, Inc.

74139

CHAIN OF CUSTODY NUMBER

Record					Services Severn Trent Laboratories, l												
STL4149 (0700)			* 0	0 5 8	92-	0 0 1	*										
Client				Project Manage	or .			U	ate	$\top$							
Maxim Technologies Inc				Brian My	/ller			0	07/11/2001	- }	Pag	ge		<del>1</del> (	of	1	
Address				Telephone Nun	nber (Area Code)	i/Fax Number			ab Location								
14818 W. 6th Ave. Suite	1 A			(303) 23	79-7885 / (S	3031 279-3	7816	,	TL Denver				Α	Analys	15		
City	State	Zip Code		Site Contact	2 / 9 5 8 / 1 .	3.9.1. 4.1.2			C. W. A. C.	т	МТ	. 8	FC	SP	T	T	
Golden	co	80401		Brian My	vller								ГИ				
Project Number/Name				Carrier/Waybill		<del></del> -,							AR				
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CONTRACT / PURCHASE ORDE	R # :	· · · · · · · · · · · · · · · · · · ·		<i>_</i>		·			QUOTE: 42471				; c				
Sample I.D. Number and De	accintion	Date	Time	C/V/ Sample Type	Co	ntainers		Preservative	Condition on Receipt/Comments	.	L	A	L T	c			Ì
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Spring Gultch No.3	15:15	7-15-01	10/3	HATER	1000mL	PLASTIC	1	None		_ _	1	_ _	x x	x x		.]	
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SERVICES

TRENT SERVICES Severn Trent Laboratories, Inc.

Address   Telephone Number (Area Code)/Fax Number   Lab Location   Analysis     Address   Lab Location   Lab Location   Analysis     Analysis   City   State   Zip Code   Site Contact   T M T 8 F C S P	STL4149 (0700)	;	* 0	0 5 8	92-	0 0 1	*														
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Analysis   Analysis	Maxim Technologies Inc							07/11/2001 P					Page of								
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Dote   Dote	14818 W. 6th Ave. Suits 1A			(303) 27	9-7885 / (3	303) 279-	816	s	TL Denver							7515					
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Durango Phase II		80401		Brian My	ller					P	s	PO	L	N I	א ט						
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Trip Blank	Argenta Ute #2 WDW - No.3			WATER	40mL	VIAL	9	1:1 HCL		1	x  :	<u> </u>		1		_ _	<u> </u>				
Special Instructions Quote 42471 8260B/BTEX/HTBE 8015B/DRO 8015B/GRO 8021B/halocarbons ignitability, pH  Reactive cyanide & Sulfide Possible Hazard Identification   Non-Hazard   Flammate   Skin Irridant   Poisson B   Unknown   Ratum To Client   Disposal By Lab   Archive For   Months relatined length from 3 months)   Robust	Argenta Ute #2 WDW - No.3	7-15-01	11:30	WATER	1000mL	PLASTIC	1	None		_		_ _	X.	X 7	X X		_ _	-			
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Possible Hazard Identification   Sample Disposal   (A fee may be assessed if samples are retained tonger than 3 months)	Quote 42471			8015B/DRO			carbo	ons ignitab	ility, pH												
Non-Hazard   Flammable   Skin Irritant   Poison B   Unknown   Return To Client   Disposal By Lab   Archive For   Months retained longer than 3 months    Turn Around Time Required   OC Level   Project Specific Requirements (Specify)      Normal   Poison B   Unknown   Return To Client   Disposal By Lab   Archive For   Months retained longer than 3 months      Project Specific Requirements (Specify)      Relimption for By Key   Archive For   Months retained longer than 3 months      Project Specific Requirements (Specify)      Project Specific Requirements	Possible Hazard Identification										A fo	e m:	ıy bı	o as:	sassi	rd il si	unple	os arc			
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#### Chain of Custody Record

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SERVICES Severn Trent Laboratories, Inc.

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Client				Project Manager	,	<del></del>		- P	le	T-							
Maxim Technologies Inc				Brian My	ller			) n.	7/11/2001		Page	·	1	_ of			
Address				Telephone Num		/Fax Number			) Location								
14818 W. 6th Ave. Suite 1A				(303) 27	9-7885 / (3	031 279-7	816	s'	IL Denver	Analysis							
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		- 14/ - 1	15-5		Volume	Туре	No.	\		4	s P		-	++			
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Argenta Ute #2 WDW-No.3-1				SOLID	80z	CLEAR GL	1	None		+	- X	- -			+		
Argenta Ute #2 WDW-No.3-1				SOLID	40z	CLEAR GL	2	None			X						
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Spring Gulch-No.3-1 40-4/			0800	SOLID	40Z	CLEAR GL		None		_X.	X.						
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Spring Gulch-No.3-140-4		7-14-01	0800	SOLID	40z	CLEAR GL	2	None		X	Х		- $+$ $+$		-  -		
Spring Gulch-No.3-2	<del>'</del> },	7-19-61	1545	SOLID	40z	CLEAR GL	2	None		Х.	Х	-					
Spring Gulch-No.3-3 (15-/	<u>6</u> )	7-13-01		SOLID	4oz	CLEAR GL		None		Х	<u> </u>	-	$\vdash$				
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Possible Hazard Identification					Sample Disp	osal											
□ Non-Hazard □ Flammable	Skin	Jestant	Poison B	Unknowi	1		П о:а	posal By Lab	Archive For Months				e assos or than			\$ 800	
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3 Ralinquished By				Date	Time	3. Rocei	ved Bv					Date			Time		
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Comments						ŀ						L			L		

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

District IV - (505) 827-7131

c, NM 87410ء۔۔۔

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#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 92162

REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: Non-Exempt: Q. (Q. O)	4. Generator Robert L. Baylow
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Tocits CTB
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter LEC OIL Fich Ser
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Heroico New Sec. 20 TZGN ABW
7. Location of Material (Street Address or ULSTR)	HE4 Sec. 20 726N \$1800
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be acceded Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
	SEP 2001 RECEIVED OIL COON. DN DIST. 3
Estimated Volume — cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: <b>1.0</b> Sob-632-0615
APPROVED BY: APPROVED BY: APPROVED BY: TITLE: Geo	Engineer DATE: 9/20/01  1/09/15 DATE: 9-24-1

7-30-01; 10: 10AM; ENVIROTEC.



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEG DISTRICT OFFICE 1000 NIG BRAZOS ROAD AZTEG, NEW HEXICO 87410 (505) 334-6178 Fax (505)334-6176

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  R. L. BAYLESS  RO BOX 168	Envirotech Soil Remediation Facility Landarm #2
FARMINGTON, NM . 87499	Hilltop, New Mexico
3. Originating Site (name):  TOUTO DOME (ENTERL TANK BATT  NEST, SEC. ZO, TELN, RISW  SAN JUAN GOUNTS, NM.	Location of the Waste (Street address &/or ULSTR):
A A # A . # I - I - A - A - A - A - A - A - A - A -	
4. Source and Description of Waste  7 CUBIC WARDS SPENT SOUFATRE	F GREY GRAVEL- LIKE MATERIAL
CONTHINIAL IRON PYRITE.	
I, Tom Me (ARFH) (Print Name)	representative for:
O) RANGET	do hereby certify that,
according to the Resource Conservation and Recov- 1988, regulatory determination, the above described	ery Act (RCBA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	MPT olifleld waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or n	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following document MSDS Information	· ·
RCRA Hazardous Waste Analysis Chain of Custody	
I John Developed Louisia pi	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	Abdulatly Cocurring Recipeopte Pleating (1001111)
Name (Original Signature):	
Title: ENGINEER	
Date: 9/19/01	

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

District IV - (505) 827-7131

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 96052

	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
1.	RCRA Exempt: Non-Exempt: 9.11.01	4. Generator Phillips Potrolessen			
	Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site SJ. 29-6年マタル			
2.	Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Key			
3.	Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Mesoico			
7.	Location of Material (Street Address or ULSTR)	HUND SOC 34, TZ9N, R6W			
9.	Circle One:	Rio Arriba County, Du.			
	<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>				
BR	Soil contominated with condons	SEP 2001 RECEIVED OR CON DIV. DIST. S.			
Est	imated Volume cy Known Volume (to be entered by the op	perator at the end of the haul) ————————————————————————————————————			

SIGNATURE:	Waste Management Facility Authorized Agent	TITLE: Landfarm Manager	DATE: 9.14.01
TYPE OR PRINT	Waste Management FacilityAuthorized Agent NAME: Harlan M. Brown	TELEPHONE NO.	505-632-0615
TIPE OR PRINT	NAMIC.	TEEL HORE NO.	

(This space for State Use)

DATE: 9/20/01

DATE: 9-24-/ %

APPROVED BY

TITLE:

Atan Brown

## CERTIFICATE OF WASTE STATUS

i i isangistoj Risma and Address:	2. Destination Name:	1 1	
1. Generator Name and Address:	A. Copulaçuii (valio:		
Phillips PETaleum	Envirotech Soil Remedi	ation Fac	ility
		1	
	Landfarm #2 Hilltop, New Mexico	632-0	6/3
3. Originating Site (name):	Location of the Waste (Street a	dress &/or	ULSTR):
29-6 #99m			:
Attach list of originating sites as appropriate	•		
4. Source and Description of Waste		10	7
4. Source and Description of Waste  2 CONTHINAS - 8  Soil CONTAMINATED	yds t 6 yds =  sof condansate; sp  and the solution of the sol	14 y ch Il was not Representis	25 B3/ NEO TO
(OBENT WIR, ANSW	/	epresentativ	
Phillips (Print Name)			
		<b></b>	
ccording to the Resource Conservation and Rec	covery Act (RCRA) and Environmental	Protection .	certify that, Agency's July,
ccording to the Resource Conservation and Rec	covery Act (RCRA) and Environmental	Protection .	
ccording to the Resource Conservation and Rec 988, regulatory determination, the above described EXEMPT cilfield wasteNON-E	covery Act (RCRA) and Environmental	Protection ation)	Agency's July
ccording to the Resource Conservation and Rec 988, regulatory determination, the above described EXEMPT cilfield waste NON-E analysis	covery Act (RCRA) and Environmental bed waste is: (Check appropriate classified EXEMPT oilfield waste which is non-hais or by product identification	Protection and an articles are articles by	Agency's July characteristic
ccording to the Resource Conservation and Rec 988, regulatory determination, the above described EXEMPT cilfield wasteNON-E	covery Act (RCRA) and Environmental bed waste is: (Check appropriate classified EXEMPT oilfield waste which is non-hais or by product identification	Protection and an articles are articles by	Agency's July,
ccording to the Resource Conservation and Rec 988, regulatory determination, the above described EXEMPT cilfield waste NON-E analysis	bed waste is: (Check appropriate classified waste or by product identification or non-exempt non-hazardous waste decumentation is attached (check appropriate classified product).	Protection ation) zardous by offined above	Agency's July characteristic
eccording to the Resource Conservation and Recognists and Recognists and Recognists and Recognists and Recognists and that nothing has been added to the exempt of NON-EXEMPT waste only the following domain and MSOS Information RCRA Hazardous Waste Analysis	covery Act (RCRA) and Environmental bed waste is: (Check appropriate classification is or by product identification or non-exempt non-hazardous waste decumentation is attached (check approached).	Protection ation) zardous by offined above	Agency's July characteristic
EXEMPT cilfield waste  NON-Exempt of the Resource Conservation and Recognition (1988), regulatory determination, the above described analysis (1988), regulatory determination, the above described (1988) analysis (1988), and that nothing has been added to the exempt of NON-EXEMPT waste only the following demands (1988).	covery Act (RCRA) and Environmental bed waste is: (Check appropriate classification is or by product identification or non-exempt non-hazardous waste decumentation is attached (check approached).	Protection ation) zardous by offined above	Agency's July characteristic
EXEMPT oilfield waste  NON-EXEMPT waste only the following do MSDS Information RCRA Hazardous Waste Analysis	bed waste is: (Check appropriate classification  EXEMPT oilfield waste which is non-had is or by product identification  or non-exempt non-hazardous waste de permentation is attached (check appropriate classification)  — Other (description)	Protection ation) zardous by offined above	Agency's July characteristic
EXEMPT oilfield waste  NON-EXEMPT waste only the following do MSOS Information  RCRA Hazardous Waste Analysi Chain of Custody	covery Act (RCRA) and Environmental bed waste is: (Check appropriate classification is or by product identification or non-exempt non-hazardous waste decumentation is attached (check approached).	Protection ation) zardous by offined above	Agency's July characteristic
Exempt oilfield waste  NON-EXEMPT waste only the following do MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	bed waste is: (Check appropriate classification  EXEMPT oilfield waste which is non-had is or by product identification  or non-exempt non-hazardous waste de permentation is attached (check appropriate classification)  — Other (description)	Protection ation) zardous by offined above	Agency's July characteristic
Exempt oilfield waste  NON-EXEMPT waste only the following do MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	bed waste is: (Check appropriate classification  EXEMPT oilfield waste which is non-had is or by product identification  or non-exempt non-hazardous waste de permentation is attached (check appropriate classification)  — Other (description)	Protection ation) zardous by offined above	Agency's July characteristic
ecording to the Resource Conservation and Recoles, regulatory determination, the above described.  EXEMPT cilifield waste	bed waste is: (Check appropriate classification  EXEMPT oilfield waste which is non-had is or by product identification  or non-exempt non-hazardous waste de permentation is attached (check appropriate classification)  — Other (description)	Protection ation) zardous by offined above	Agency's July characteristic
Exempt oilfield waste  EXEMPT oilfield waste  NON-EXEMPT waste only the following do  MSDS Information  RCRA Hazardous Waste Analysi  Chain of Custody  The Special Signature:  The Special Sp	bed waste is: (Check appropriate classification  EXEMPT oilfield waste which is non-had is or by product identification  or non-exempt non-hazardous waste de permentation is attached (check appropriate classification)  — Other (description)	Protection ation) zardous by offined above	Agency's July characteristic
Exempt oilfield waste  EXEMPT oilfield waste  NON-EXEMPT waste only the following do  MSDS Information  RCRA Hazardous Waste Analysi  Chain of Custody  The Special Signature:  Chain Special	bed waste is: (Check appropriate classification  EXEMPT oilfield waste which is non-had is or by product identification  or non-exempt non-hazardous waste de permentation is attached (check appropriate classification)  — Other (description)	Protection ation) zardous by offined above	Agency's July characteristic
eccording to the Resource Conservation and Reconservation and Reconservation and Reconservation and Reconservation and Reconservation, the above described analysis of that nothing has been added to the exempt of NON-EXEMPT waste only the following domain and MSDS Information  RCRA Hazardous Waste Analysis Chain of Custody	bed waste is: (Check appropriate classification  EXEMPT oilfield waste which is non-had is or by product identification  or non-exempt non-hazardous waste de permentation is attached (check appropriate classification)  — Other (description)	Protection ation) zardous by offined above	Agency's July characteristic

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

District IV - (505) 827-7131

c, NM 87410 مديم

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

DOMAY FORST.

Env. JN:

92142

1. RCRA Exempt: Non-Exempt: 🔲 🧠 4・51	4. Generator Pasco
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site ಆಷ್ಟು ಆನಂತರ
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Environment
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Mapico
7. Location of Material (Street Address or ULSTR)	5680 US Hur 64 Farmington, Nol.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Solids generated from cleaning of Storage tonks, separators, duhydrators, a	ad refurbosaing production
	SEP 2001 SEP 2001 SEC VED OIL CON. DIV DIST. 3
stimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
Waste Management Facility Authorized Agent  YPE OR PRINT NAME:  Harlan M. Brown  TEL	DATE: 9. 4.01  EPHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: Demy Jam TITLE: Enviro	Eng DATE: 9/10/01
APPROVED BY: Hell TITLE: geolo	09/5 DATE: 9-10-1

Jn: 92142

## **CERTIFICATE OF WASTE STATUS**

2. Destination Name:
Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
Location of the Waste (Street address &/or ULSTR):  Mainyard, stored in 55 gallon drums & 18 Cubic Foot Steel Boxes.
efurbishing production storage tanks, roduction equipment.
representative for:  Inc. do hereby certify that
, Inc. do hereby certify that ry Act (RCRA) and Environmental Protection Agency's July waste is: (Check appropriate classification)
APT oilfield waste which is non-hazardous by characteristic by product identification
n-exempt non-hazardous waste defined above.
nentation is attached (check appropriate items): Other (description):

シャラ さり

#### NORM SURVEY DATA SHEET

Facility / location.	Pesco	<del> </del>	Date:	8/27/2001	
Meter Model: DOSIME	TER 3007A	Serial No:	9808-238		
Detector Model: DOSIN	ŒTER 3012	Serial No	201-887-7100		
Calibration Date: 08/0	8/2001				
Battery Check: ( 💉					
Background Radiation L	evel: 0.04	mR hr			
Description of material s	irveyed: - JOB BO	xes			
Waste Material: 246 Equipment:  Manufacturer:  Serial No  Description:  Job No  Comments:	Di- Fierd		l Surveyed mR.hr:_	: <u>0.05</u>	
Sumey Conducted by	Byron Byron 1 Santare	Beton Bo			

District 1 (505) 393-6161
P. O. Box 1980
Hobbs. NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Profict III - (505) 334-6178
Rio Brazos Road
C., NM 87410
District IV - (505) 827-7131

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

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

Submit Original
Plus 1 Copy
to appropriate
District Office

#

Env. JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
RCRA Exempt:      Non-Exempt:	4. Generator EAFS
Verbal Approval Received: Yes 🔲 No 🖂	5. Originating Site Hout Comp. Std
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Epuration
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State W we becarping
7. Location of Material (Street Address or ULSTR)	地 See 29 T81N R100
9. <u>Circle One</u> :	SJ, County Numbers
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted an accept one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification of testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Soil Contaminated up say in a Con	bricating oil
	88 9 11 12 12 12 12 12 12 12 12 12 12 12 12
Estimated Volume — ZO cy Known Volume (to be entered by the op	
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEI	Manager DATE: 8' 30 - 01 EPHONE NO. 505-632-0615
APPROVED BY: Lange Tent TITLE: Envivo	Chil DATE: 9/10/01

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

APPROVED BY:

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

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

Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 97057.045

DATE:

	1. 88 1 30 1 25 14 4 2 1 1 A	The first of the second of the
REQUEST FOR APPI	ROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🏹		4. Generator EPFS
Verbal Approval Received: Yes	No 🔂	5. Originating Site Hout Comp. St.
2. Management Facility Destination Envirotech Facility	n Soil Remedia. 7 Landfarm #2	6. Transporter Esuirotach
3. Address of Facility Operator 5796 US Hig Farmington,		8. State N we blespice
7. Location of Material (Street Address or ULSTR)		the Sec 29 TBINRIOW
9. <u>Circle One</u> :		SJ. County Now Maple
Generator; one certificate per job.  B. All requests for approval to accept non-exem PROVE the material is not-hazardous and the fisting or testing will be approved.  All transporters must certify the wastes delivered a	Generator's certification	n of origin. No waste classified hazardous by
Estimated Volume cy Known Volume		crator at the end of the haul) — cy
al of Tallowit Volume		
SIGNATURE: Waste Management Facility Authorized Agent	TITLE: Landfarm M	anager DATE: 8.30.01
TYPE OR PRINT NAME: Harlan M. Brown	TEL	EPHONE NO. 505-632-0615
(This case for State Use)		·

TITLE:

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:	
El Paso Field Services Co.	Envirotech Soil Remediation Facility	
614 Reilly Avenue	Landfarm #2	
Farmington, NM 87401	Hilltop, New Mexico	
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):	
Hart Canyon #1 Station	Sec. 29, T31N, R10W, San Juan Co., NM	
Attach list of originating sites as appropriate  4. Source and Description of Waste		
Soil Contaminated with engine lubricating oil.		
I, <u>David Bays</u> (Print Name)	representative for:	
El Paso Field Services	do hereby certify that,	
	overy Act (RCRA) and Environmental Protection Agency's July,	
<b>EXEMPT</b> 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 docu	mentation is attached (check appropriate items):	
MSDS Information  X RCRA Hazardous Waste Analy Chain of Custody	Other (description)	
Name (Original Signature):	ul Baye	
Title: Principal E	Environmental Scientist	
Date: August 22	, 2001	



#### TRACE METAL ANALYSIS

Client:	EPFS	Project #:	97057-045
Sample ID:	Stockpile	Date Reported:	08-28-01
Laboratory Number:	20748	Date Sampled:	08-23-01
Chain of Custody:	9535	Date Received:	08-23-01
Sample Matrix:	Soil	Date Analyzed:	08-28-01
Preservative:	Cool	Date Digested:	08-24-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.028	0.002	5.0
Barium	7.22	0.002	100
Cadmium	0.016	0.002	1.0
Chromium	0.468	0.002	5.0
Lead	0.632	0.002	5.0
Mercury	ND	0.002	0.2
Selenium	0.010	0.002	1.0
Silver	0.006	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Hart #1 Compressor.

Analyst

Review



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client: Sample ID:	QA/QC 08-28-TM QA/QC	Project #: Date Reported:	N/A 08-28-01
Laboratory Number: Sample Matrix:	20716 Soil	Date Sampled: Date Received:	N/A N/A
Analysis Requested: Condition:	Total RCRA Metals N/A	Date Analyzed: Date Digested:	08-28-01 08-24-01

Blank & Duplicate	lnstrument	Method	Detection	n Sampl	Ouplicate	7.7	Acceptance
Arsenic	ND	ND	0.002	0.152	0.150	1.3%	0% - 30%
Barium	ND	ND	0.002	28.6	28.8	0.7%	0% - 30%
Cadmium	ND	ND	0.002	0.100	0.100	0.0%	0% - 30%
Chromium	ND	ND .	0.002	0.450	0.442	1.8%	0% - 30%
Lead	ND	ND	0.002	0.526	0.520	1.1%	0% - 30%
Mercury	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.002	0.074	0.074	0.0%	0% - 30%
Silver	ND	ND	0.002	0.032	0.032	0.0%	0% - 30%

Spike ******	Spike	Samell (Samell	เอริกได้สำนาจ	a degregation and	······································
:=1@ones:(mg/Kg)	100		s. Spinjelo	, freedyfia'r	#aRalines
Arsenic	1.00	0.152	1.15	99.8%	80% - 120%
Barium	1.00	28.6	29.4	99.3%	80% - 120%
Cadmium	1.00	0.100	1.10	100.0%	80% - 120%
Chromium	1.00	0.450	1.44	99.3%	80% - 120%
Lead	1.00	0.526	1.52	99.6%	80% - 120%
Mercury	0.100	ND	0.098	98.0%	80% - 120%
Selenium	1.00	0.074	1.07	99.6%	80% - 120%
Silver	1.00	0.032	1.03	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 20716, 20726 - 20728 and 20748.

Analyst

Review

09535

Client / Project Name			Project Location	#1 (	Empr.	~& o/	ANALYSIS / PARAMETERS										
Sampler:			Client No.					25					T	Re	emarks		
HARLAN W	Bruch	)	9709	57-6	45		No. of ontainers	RCRAS HILL TO LE					-			-	<del></del>
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	A TE					-				
Stockpile	8.23.0	(0100	20748		5-41		ľ	1									
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				V											Y	N	N/A
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District 1 - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Anesia, NM 88210 <u>ध्रांत III</u> - (505) 334-6178 Rio Brazos Road c, NM 87410 کیے۔

District TY - (505) 827-7131

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 95007-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Frank Charez

1. RCRA Exempt: Non-Exempt: Denny Fount	4. Generator (casta (Chamic
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site wide serve Cl
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Enjoynotech.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Mexico
7. Location of Material (Street Address or ULSTR)	
9. Circle One:	SAN Juan County,
<ul> <li>A. All requests for approval to accept oitfield exempt wastes will be accepted accept; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to in of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Soil contaminated with Trieth.	ylowe Glycol at a
Estimated Volume Cy Known Volume (to be entered by the op	
Waste Management Facility Authorized Agent	EPHONE NO. 505-632-0615
APPROVED BY: Deny Tout TITLE: Env.	Engineer DATE: 8/22/01 Chief DATE: \$/29/01

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

District IV - (505) 827-7131

APPROVED BY:

c, NM 87410 سـر

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

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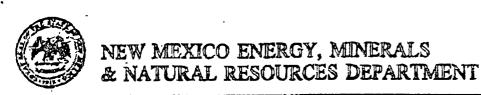
> Submit Original Plus I Copy to appropriate District Office

Env. JN: <u>956σ</u>7-

REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: Non-Exempt: Denny Fount 7.26.0	4. Generator (oastu (Chamic
Verbal Approval Received: Yes No	5. Originating Site of iddle blesse C
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Enowatech.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"H" Sec 10, T31N, R7W SAN Juan County,
9. Circle One:	SAN Juan County,
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Soil contourined with Trieth ruptured Hose MSDS ATTACHED.	AUG 2001 AUG
SIGNATURE:	Manager DATE: 8.21.01  LEPHONE NO. 505-632-0615
APPROVED BY: Deny James TITLE: Env.	Engineer DATE: 8/22/01

TITLE:

DATE:



OIL CONSERVATION CIVISION AZTEC DISTRICT OFFICE 1000 RID BRAZOS ROAD AZTEC, NEW MEXICO 27410 1008) 334-5178 FAX (303)334-5178

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name: Envirotech Soil Remediation Facility
Coastas Chemical	•
1130 Madison LN	Landarm #2
En-minoton MM X 1901	Hilltop, New Mexico
3. Originating Site (name): WFS-Middle Mesa CDP	Location of the Waste (Street address & for ULSTR):  N 5-10-73/N R74  Son Juan County
Artech list of originating sites as appropriets	
4. Source and Description of Waste	
Cleanup OF NEW triets	hylene Glycol Spill as the wed hose.
result of a rupt	wed nose.
,	
Mile Farni	representative for:
(Print Name)	
(pastal (hemical	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Waste is. Clieck appropriate dissembled
EXEMPT oilfield waste 4 NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt nor-nazardous waste defined above.
For NON-EXEMPT waste the following documents	gion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	•
	n o win Indicative Material (MORM) nursuant
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.	)
	C
Name (Original Signature): Music for	me_
Dea 1.1.	
Title: //spatche/	
Date: 8-1-01	



### MATERIAL SAFETY DATA SHEET

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Triethylene glycol

HCI PRODUCT ID NUMBER:

03265

SYNONYMS:

TEG, Glycol-bis(hydroxyethyl)ether

CHEMICAL FAMILY NAME:

NFPA HAZARD RATINGS(H-F-R): 1-1-0

HMIS HAZARD RATINGS(H-F-R): 1-1-0

DISTRIBUTOR:

HCI USA Distribution Companies

IN CASE OF EMERGENCY CALL: 1-800-424-9300

MSDS PREPARED BY:

HCI Technical Resource Center

St. Louis, MO 63111

(314) 353-6500

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBERS	Percent
Triethylene glycol	000112-27-6	100

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

#### 3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION! May cause irritation to skin, eyes, and respirtatory tract. Harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS:

SKIN CONTACT: Brief contact is not irritating.

Prolonged or repeated contact with skin may cause irritation.

SKIN

ABSORPTION:

No data available

COUSTAL CHEMICAL

10F-Se-S001 13:18

EYES:

Contact with the eyes may cause irritation.

INGESTION:

Ingestion may cause gastrointestinal irritation, nausea, vomiting, diarrhea,

drowsiness, and loss of consciousness. May result in kidney and liver damage.

INHALATION:

Inhalation is believed to be minimally irritating.

MEDICAL CONDITIONS AGGRAVATED:

No data available

WARNING: Contains a chemical known to the State of California to cause cancer.

Components found on one of the OSHA designated carcinogen lists are listed below.

INGREDIENT	NTP	IARC	OSHA
Triethylene glycol	N	N	N

#### 4. FIRST AID MEASURES

SKIN CONTACT:

Remove contaminated clothing and shoes.

Wash exposed areas with soap and water.

Call a physician if irritation persists.

EYE CONTACT:

Flush eyes with water for at least 15 minutes.

Call a physician if irritation persists.

INGESTION:

Call a physician immediately!

INHALATION:

Remove to fresh air.

If breathing has stopped, give artificial respiration.

Call a physician if irritation persists.

**NOTES TO PHYSICIAN:** 

No data available

#### 5. FIRE FIGHTING MEASURES

#### FIRE AND EXPLOSIVE PROPERTIES

FLASH POINT:

340 °F

FLASH POINT:

171.09 °C

FLASH POINT METHOD: PMCC

LOWER FLAMMABILITY

0.9 Calculated

LIMIT:

UPPER FLAMMABILITY

9.2 Estimated

LIMIT:

**AUTOIGNITION** 

TEMPERATURE:

674.6 °F, 356.96 °C

FLAMMABILITY

CLASSIFICATION:

CO'L ZOSE JZS SOS

IIIB

Uè.

COUPSTAL CHEMICAL

105-26-2001 13:19

**EXTING. MEDIA:** 

Use water spray, carbon dioxide, dry chemical, or foam.

FIRE FIGHTING:

Use fog nozzles if water is used.
Water or foam may cause frothing.

Cool fire-exposed containers with water spray.

PROTECTIVE EQUIPMENT:

Use NIOSH-approved self-contained breathing apparatus and complete protective clothing when fighting chemical fires.

FIRE HAZARDS:

This material forms peroxides of unknown stability.

During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

#### 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:

Contain spill and ventilate area. Absorb on inert media and containerize for disposal.

LARGE SPILLS:

Contain spill and ventilate area. Permit only trained personnel wearing full protective

equipment to enter the spill area. Collect the spill in a waste container or remove with a

vacuum truck. Prevent spill from entering natural watercourses.

## PROTECTIVE EQUIPMENT\ SPILL-RELEASE INSTRUCTIONS:

Wear complete protective clothing when cleaning up chemical spills. Spills and releases may have to be reported to federal and/or local authorities. See the Regulatory Information section (section 14) regarding reporting requirements.

#### 7. HANDLING AND STORAGE

HANDLING: Avoid contact with skin, eyes, and clothing.

Avoid breathing product vapors and mists.

Do not take internally.

Wash thoroughly after handling this material. Use this material only with adequate ventilation.

STORAGE: Keep container closed when not in use.

Store in a cool, dry place.

This material should avoid direct sunlight.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **ENGINEERING CONTROLS:**

Special ventilation is not required under normal use. Use local exhaust ventilation where dust, mist, or spray may be generated.

#### PERSONAL PROTECTIVE EQUIPMENT

#### MATERIAL SAFETY DATA SHEET

Page 4 of 7

SKIN:

Wear protective gloves made of neoprene or rubber.

EYE:

Wear chemical safety goggles.

RESPIRATORY: Use a NIOSH-approved respirator for dusts/mists when necessary.

OTHER:

Emergency showers, eye-wash stations, and fire blankets should be accessible.

Wear protective clothing.

#### **EXPOSURE GUIDELINES:**

INGREDIENT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Triethylene glycol				
Theaty totte gry cor	N/EST	N/EST	N/EST	N/EST

#### N/EST = Not established

See 29 CFR 1910.1000 (D) (2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygenist or similar professional to confrim that the calculated exposure limits are approriate.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Liquid

APPEARANCE

Colorless, viscous

ODOR:

Mild

SPECIFIC GRAVITY:

1.12

SOLUBILTY (IN WATER): Complete

**BOILING POINT (°F):** 

545

BOILING POINT (°C):

284.97

FREEZING POINT (°F):

19

FREEZING POINT (°C):

-7.22

MELTING POINT (°F):

19

MELTING POINT (°C):

-7.22

PRODUCT pH:

6-9.5 @ 23C

**VAPOR PRESSURE:** 

<0.01 @ 20C

**VAPOR DENSITY:** 

5.2

**EVAPORATION RATE:** 

< 0.001

% VOLATILES:

C0.4

Negligible

#### 10. STABILITY AND REACTIVITY

- 2056 JZS S0S

1NF-Se-S001 13:18 COUSTAL CHEMICAL

STABILITY:

Stable

**CONDITIONS TO AVOID:** 

Exposure to high temperatures should be minimized.

INCOMPATIBILITY:

Acids, bases, oxidizing materials

**DECOMPOSITION:** 

Toxic oxides of carbon

Unidentified organic compounds

This material forms peroxides of unknown stability.

POLYMERIZATION WILL OCCUR: no

#### 11. TOXICOLOGICAL INFORMATION

May cause irritation to skin, eyes, and respiratory tract. Harmful if

swallowed. IRRITATION DATA: 500 mg/24 hours skin-rabbit mild; 500 mg eyes-rabbit mild; TOXICITY DATA: LD50: 22.06 g/kg oral-rat; LD50: 16.7 g/kg oral-mouse: LD50: 9.5 g/kg oral-rabbit LD50: 26 g/kg oral-rabbit.

g/kg oral-mouse; LD50: 9.5 g/kg oral-rabbit; LD50: >5 g/kg skin-rabbit; LD50: 17 gm/kg oral-rat: LD50: 11700 mg/kg intravenous-rat: LD50: 814

IMMEDIATE EFFECTS:

LD50: 17 gm/kg oral-rat; LD50: 11700 mg/kg intravenous-rat; LD50: 8141 mg/kg intraperitoneal-mouse; LD50: 8750 mg/kg subcutaneous-mouse; LD50: 6500 mg/kg intravenous-mouse; LD50: >4500 mg/kg intravenous-dog; LD50: 8400 mg/kg oral-rabbit; LD50: >20 ml/kg skin-rabbit; LD50: 1900 mg/kg intravenous-rabbit; LD50: 7900 mg/kg oral-guinea pig; LD50: 10600 mg/kg intravenous-guinea pig; LD50: 8150 mg/kg oral-mammal

CARCINOGENICITY: No data available

**MUTAGENICITY:** 

No data available

EPIDEMIOLOGY:

No data available

TERATOGENICITY: No data available

TDLo: 103 gm/kg oral-rat 6-15 days pregnant female continuous; TDLo: 90160 mg/kg oral-mouse 7-14 days pregnant female continuous; TDLo: 56370 mg/kg oral-mouse 6-15 pregnant female continuous; TDLo: 323

REPRODUCTIVITY:

gm/kg oral-mouse multigenerations; TDLo: 57820 mg/kg oral-mouse

multigenerations

**NEURTOXICITY:** 

No data available

#### 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: FISH TOXICITY: LC50: 10.2 ug/L 96 hours (Mortality) Rainbow trout, donaldson trout (Oncorhynchus mykiss); INVERTEBRATE TOXICITY: EC50: 343 ug/L 48 hours (Immobilization) Water flea (Daphnia magna); ALGAL TOXICITY: MATC: 16730 ug/L 11-14 hours (Growth) Red algae (Champia parvula); FATE AND TRANSPORT: BIOCONCENTRATION: BCF: 857 ug/L 24 hours (Residue) Striped mullet (Mugil cephalus) 0.035 ug/L; ENVIRONMENTAL SUMMARY: Highly toxic to aquatic life. This product has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial respiration, a low potential to affect the germination and/or early growth of some plants. This product is expected to have a low potential to bioconcentrate. After dilution with a large amount of water followed by the street of the potential to a low potential to the product of water followed by the street of the street o

90"d 2026 225 505 Ng.

COUSTAL CHEMICAL

1NF-Se-S001 12:S0

this material is not exceed to cause adverse environmental effects. OXYGEN DEMAND DATA: ThOD: 1.6 g oxygen/cOD: 1.59 g oxygen/g; BOD-5: 0.03 g oxygen/g; BOD-20: 0.27 g oxygen/g; ACUTE AQUATIC FECTS DATA: LC50: >5000 mg/L 24 hours Goldfish; LC50: >10000 mg/L 48 hours Golden orfe; 152: >1000 ul/L 96 hours Fathead minnow; LC50: >1000 ul/L 96 hours Daphnid; BIODEGRADATION Using activated sludge acclimated for 20 days at 20 C (68 F), this material served as the sole calculations and 97.7% COD removal was observed over a period of up to 120 hours at a rate of 27.5 COD removal was observed over a period of up to 120 hours at a rate of 27.5 mg COD removed/great dry inoculum/hour. SECONDARY WASTE WATER TREATMENT EFFECTS: IC50: >5@mg/L 5 hours; 7-DAY PLANT GERMINATION EFFECTS-No adverse concentration: Ryegner>1000 ul/L; Radish: >1000 ul/L; Lettuce: >1000 ul/L; 7-DAY PLANT SEEDLING EFFECIENO adverse effect concentration: Marigold: >1000 ul/L; Radish: >1000 ul/L; Corn: >1000 ul/L: Lee: >1000 ul/L

#### 13. DISPOSAL CONSIDERATIONS

RCRA WASTE:

No

RCRA ID

NUMBER:

Not applicable

VOC

CONTENT

0.017

(lbs/gal):

Waste

Disposal Procedure:

Dischare treatment, or disposal may be subject to Federal, State, or Local laws. State and Local regulations and restrictions are complex and may differ from Federal disposal regulation. The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly

change are characteristics of the material and alter the RCRA Classification and the

proper exposal method.

#### 14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not D.O.T. regulated

D.O.T. HAZARD CLASS: None

DOT ID NUMBER:

UN N/AP

DOT PACKING GROUP: None

N/AP

DOT RQ (lbs):

OTHER:

None

IMDG HAZARD CLASS: None

ICAO HAZARD CLASS: None

TSCA (Toxic Substance Control

Act):

yes

SECTION 311/312 HAZARD

**CLASS:** 

Immediate (acute) health hazard

WHMIS CLASSIFICATION

(CANADA):

Not restricted

**FOREIGN INVENTORY:** 

Canadian DSL (Domestic Substances List)

EINECS (European Inventory of Existing Commercial

Chemical Substances)

CEPA (Canadian Environmental Protection Act)

#### ADDITIONAL REGULATORY INFORMATION

WARNING: Contains a chemical known to the State of California to cause cancer. (1,4-Dioxane)

cancer.

MASSACHUSETTS SUBSTANCE LIST:

1,4-Dioxanc

**NEW JERSEY SUBSTANCE LIST:** 

Not listed

PENSYLVANIA HAZARDOUS SUBSTANCE LIST:

Triethylene glycol

### SARA TITLE III (Superfund Amendments and Reauthorization Act):

INGREDIENTS	ICAE MIIMBEDE		Section 302
Triethylene glycol	000112-27-6	N	N

This product may contain trace amounts of 1,4-Dioxane (CAS # 123-91-1).

#### 16. OTHER INFORMATION

CREATION DATE: 08/19/1997 REVISION DATE: 05/27/1999

#### DISCLAIMER:

80'd

The information herein is presented in good faith and is believed to be correct as of the date hereof. However, HCI makes no representation as to the completeness and accuracy thereof. Users must make there own determination as to the suitability of the product for their purposes prior to use. No representations or warrantics, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature with respect to the product or to the information herein is made hereunder. HCl shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication, or use of, or reliance upon the information contained herein.

Histrict I - (505) 393-6161 F O. Box 1980 Hobbs, WM 88241-1980 Electrict II - (505) 748-1283 811 S. First Artesia, NM 88210

1 Rio Brazos Road

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Submit Original Plus 1 Copy to appropriate District Office

Env. JM: <u>98059</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes No 2	5. Originating Site Work Bay
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Sarron o's
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Nandlanico 3440 Horniggatum Dr.
7. Location of Material (Street Address or ULSTR)	3440 Morningston Dr. Farmington Du
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted accepted.</li> <li>B. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
Continuation of walk boy  TLLP ATTACHED.  AUG 29 2001  Environmental Bureau Oil Conservation Division  Estimated Volume 15 bbs cy Known Volume (to be entered by the open  SIGNATURE: Harlan M. Brown  TITLE. Landfarm M.  TYPE OR PRINT NAME: Harlan M. Brown  TEL	on erator at the end of the haul) — cy
APPROVED BY: Totale Use)  APPROVED BY: Totale Use)  TITLE: Dures	Engneer DATE: 8/22/01
APPROVED BY: You I TITLE: Dure	

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

APPROVED BY:

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

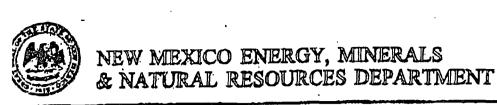
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

strict IV - (505) 827-7131	Env. JN: <b>98059</b>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes No No	5. Originating Site Work Bay
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Sevens's
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Marico
7. Location of Material (Street Address or ULSTR)	8. State Now Mexico 3440 Morningstor Dr. Farmington, Du.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompressed the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Continuation of work boy:	AUG 2001  AUG 20
Estimated Volume 15 555 cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Anager DATE: 8.20.01  EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy Jam TITLE: Env #	Engineer DATE: 8/22/01

TITLE:

DATE:



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RID BRAZOS ROAD AZYEC, NEW MEXICO 37410 (805) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY .

### CERTIFICATE OF WASTE STATUS

<u></u>	
1. Generator Name and Address:  3440 Molping STAR DIVE FARMING TON, NM 87411  UNI UYRSAL CAMPRESSIDA FNC.	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTA):
3440 Morning STAR DRIVE FAR  Attach list of originaling sites as appropriate  4. Source and Description of Waste Confusion	minston um 87401 HON OF WASh BAY SOLIJS
1. Jim Lewis	representative for:
1988, regulatory determination, the above described	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July. waste is: (Check appropriate classification)  APT cilifield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	•
This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	
Title: ARen Sperusor,	



### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCLP '5-7-

Printed Name

Jim Lewis

Title / Agency

AREA SUPERVISOR

Address

3440 MORNING STAR DR

FARmington Nm 8740

Signature-

Date

8-21-01



### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Universal Compression New Wash Bay Project #:
Date Reported:

98059-001

Lab ID#:

19830

Date Sampled:

05-15-01

Sample Matrix:

Sludge

Date Received:

05-07-01 05-07-01

Preservative:

Cool

Date Analyzed:

05-11-01

Condition:

Cool and Intact

Chain of Custody:

8646

**Parameter** 

Result

**IGNITABILITY**:

Negative

**CORROSIVITY:** 

Negative

pH = 7.36

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

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

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

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

3440 Morningstar.

<u>کریں۔ /</u> Analyst

Review



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

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-16-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-15-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.107	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0051	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% <sup>.</sup>

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

3440 Morningstar.

Alu C. Cefeer

Christine of Walters



### EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-17-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-16-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

urrogate 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:

3440 Morningstar.

Analyst C. Colera

Christing Worsters
Review



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

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-16-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-16-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

100%

References:

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

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

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

Note:

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

Comments:

3440 Morningstar.

Analyst

(Review Marten



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-15-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Analyzed:	05-15-01
Preservative:	Cool	Date Extracted:	05-09-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

i		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.006	0.001	5.0
Barium	0.346	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	ND	0.001	5.0
Lead	0.017	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0
		•	

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3440 Morningstar.

Analyst

(hustine m Walter

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# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample 1D:	Laboratory Blank	Date Reported:	05-16-01
Laboratory Number:	05-15-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-15-01
Condition:	N/A	Analysis Requested:	TCLP

•	Concentration	Detection	Regulatory
_		Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/ <b>L)</b>
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
<u> </u>	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 19828, 19830 and 19865.

Alu P. aluca Analyst

Christine m Walters
(Beview



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

		•
QA/QC	Project #:	N/A
Method Blank	Date Reported:	05-16-01
05-09-TCV-MB	Date Sampled:	N/A
TCLP Extract	Date Received:	N/A
N/A	Date Analyzed:	05-15-01
N/A	Date Extracted:	05-09-01
•	Analysis Requested:	TCLP
	Method Blank 05-09-TCV-MB TCLP Extract N/A	Method Blank Date Reported:  05-09-TCV-MB Date Sampled:  TCLP Extract Date Received:  N/A Date Analyzed:  N/A Date Extracted:

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	99%
	<i>?</i>	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 19828, 19830 and 19865.

Du C. Ogieven

Mistari m Walters
Review



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

•			
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-16-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-15-01
Condition:	N/A	Date Extracted:	05-09-01

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0330	0.0330	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst C. apleen

Misteri m Waeters
Beview



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

Client: Sample ID:

QA/QC Matrix Spike

Project #: N/A

Laboratory Number:

19828

Date Reported: 05-16-01

Sample Matrix:

Date Sampled: **TCLP Extract** Date Received: N/A N/A

Analysis Requested: Condition:

**TCLP** N/A

Date Analyzed: Date Extracted:

05-15-01 N/A

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0330	0.050	0.0820	0.0001	99%	47-132
Chloroform `	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.050	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples 19828, 19830 and 19865.



### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	05-17-01
Laboratory Number:	05-16-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-16-01
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	Perce	ent 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, Phenois, 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 19828, 19830 and 19865.

Alu P. Cyleren

Christine my Walters Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-17-01
Laboratory Number:	05-09-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-09-01
Condition:	Cool & Intact	Date Analyzed:	05-16-01
•	•	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ŃD	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 19828, 19830 and 19865.

Men C. Q. Leen Analyst

Christini my Warter



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-17-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	05-16-01
		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 19828, 19830 and 19865.

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# 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:	05-16-01
Laboratory Number:	05-16-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	05-16-01
		Analysis Requested:	TCLP

Concentration	Det. Limit (mg/L)	Regulatory Limit (mg/L)
(mg/L)	(1119/12)	(mg/L)
ND	0.020	5.0
ND	0.020	3.0
ND	0.020	2.0
ND	0.020	<b>0.5</b>
ND	0.020	0.13
ND	0.020	0.13
	(mg/L)  ND ND ND ND ND ND ND	Concentration (mg/L)         Limit (mg/L)           ND         0.020           ND         0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	,	

2-fluorobiphenyl

97%

References:

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

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

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

Note:

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

Comments:

QA/QC for samples 19828, 19830 and 19865.

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# 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:	05-16-01
Laboratory Number:	05-09-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-09-01
Condition:	Cool and Intact	Date Analyzed:	05-16-01
·		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	NĎ	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 Acce	eptance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	97%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, S	SW-846, USEPA, July 1992.
	Method 3510, Separato	ry Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.
	Method 8090, Nitroaror	natics 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 19828, 19830 and 19865.

Analyst

Mistine m Walters



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-16-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	05-16-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

		Dicc.
QA/QC Acceptance Criteria	Parameter	Maximum Difference
<u> </u>		

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 19828, 19830 and 19865.

Analyst C. Que

Misteri m Walter



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

Client:	QA/QC	Project #:	N/A
Sample ID:	05-15-TCM QA/QC	Date Reported:	05-15-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	05-15-01
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	0.009	0.009	0.0%	0% - 30%
Barium	ND	ND	0.001	1.01	1.00	1.0%	0% - 30%
Cadmium	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	0.011	0.011	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ÑD	0.001	0.005	0.005	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike	Spikë	Sample			Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range.
Arsenic	0.500	0.009	0.508	99.8%	80% - 120%
Barium	0.500	1.01	1.49	98.7%	80% - 120%
Cadmium	0.500	0.004	0.503	99.8%	80% - 120%
Chromium	0.500	ND	0.499	99.8%	80% - 120%
Lead	0.500	0.011	0.510	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.005	0.505	100.0%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19828, 19830 and 19865.

### **CHAIN OF CUSTODY RECORD**

08646

Client / Project Name	mpres	eslon	Project Location	ing star	ANALYSIS / PARAMETERS										
Sampler: Hur can M.	Brown	S	Client No.	No. of Containers	C. H. C.					. [	Re	marks			
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				(505) 632-	0615						Cool - lo	e/Blue Ice		1	

~ ...c. NM 87410

Hobbs, NM 88241-1980 District II - (505) 748-1283 Artesia, NM 88210 P'-via III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 2	4. Generator Essege Service
Verbal Approval Received: Yes No No	5. Originating Site Matu Youd
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Edvivetur
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Number co
7. Location of Material (Street Address or ULSTR)	8. State Numbhagoico 4109 E. Man St. Farmingtony NUL.
9. Circle One:	3' 7'
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept accept; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept ROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul> All transporters must certify the wastes delivered are only those consigned.	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	70 70 71 77 m
Continuation of Wash Bay Sax.  TELD ATTACOMOD.  RECEIVED  AUG 2 9 2001	AUG 2001 RECEIVED OLOGIA DIV OLOGIA O
Environmental Bureau Oil Conservation Division	••
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Manager DATE: 8:14:01  EPHONE NO. 50:>-632-0615
(This space for State Use)	
APPROVED BY: Low John TITLE: Env &	Chief DATE: 8/22/01

District 1 - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 " trict III - (505) 334-6178 Rio Brazos Road

A...c, NM 87410 Diside TV - (505) 827-7131

### New Mexico

### Energy Minerals and Natural Resources Department

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

(505) 827-7131

Form C-138 Originated 8/8/95

Submit Original Plus I Copy to appropriate District Office

Env. JN: 92132

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	RE	Q	UE	Sī	$\Gamma$ FC	PC	A	PP	RC	<b>)V</b> /	٩L	TO	AC	CE	7	SOL	.ID WA	STE

REQUEST FOR APPROVAL TO ACC	
1. RCRA Exempt: Non-Exempt:	4. Generator Busing Januica
Verbal Approval Received: Yes No No	5. Originating Site Mata Kood
2. Management Facility Destination Envirotech Soil Remed Facility Landfarm #	6. Transporter Edvivotely
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Namblespico
7. Location of Material (Street Address or ULSTR)	Fermington NU.
9. Circle One:	
B. All requests for approval to accept non-exempt wastes must be PROVE the material is not-hazardous and the Generator's certificiting or testing will be approved.  All transporters must certify the wastes delivered are only those cons	ication of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	10707172
Contounation of Wash Bay: Tech ATTACHED.  RECEIVED  AUG 2 9 2001	AUG 2001 PRECEIVED OLOGIUST OL
Environmental Burea Oil Conservation Divis	<del>**</del> -* ·
Estimated Volume . — cy Known Volume (to be entered by the	he operator at the end of the haul)cy
SIGNATURE: Harlan M. Brown  TITLE: Landfa  Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown	TELEPHONE NO. 505-632-0615
APPROVED BY: APPROVED BY: APPROVED BY: APPROVED BY: TITLE: Bare	DATE: 8/22/01

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

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

Form C-138 Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

Rio Brazos Road C, NM 87410 District IY - (505) 827-7131

(This space for State Use)

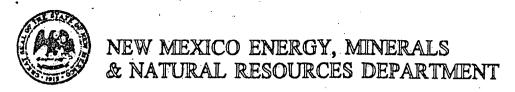
APPROVED BY:

Env. JN: 92132

DATE:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	Halliburton 4. Generator Bassiege Sanuice
Verbal Approval Received: Yes 🔲 No 🗹	5. Originating Site Matu Youd
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENvivotely
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Mapico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Fermington, NW.
9. Circle One:	31000
B. All requests for approval to accept non-exempt wastes must be accepted PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:	n of origin. No waste classified hazardous by
Continuation of Wash Bay Soli TELP ATTACORDO.	ws. RESTER BURNES
TECP ATTACHED.	AUG 2001  AUG 20
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) ————————————————————————————————————
SIGNATURE: Handfarm Ma	anager DATE: 8.19.01
Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME:  Harlan M. Brown  TELE	EPHONE NO

TITLE:



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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: talliberton Energy Services 4109 E. Main Street	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name): Italiauton Energy Services Alog F. Main Street	Location of the Waste (Street address &/or ULSTR):
Farmington, WM	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Continuation of Wash Pay S Continuation	bolids
1, Keille J. Stetton (Print Name).	representative for:
according to the Resource Conservation and Recovered 1988, regulatory determination, the above described EXEMPT oilfield waste   NON-EXE	ery Act (RCRA) and Environmental Protection Agency's July,
and that nothing has been added to the exempt or no	
For NON-EXEMPT waste the following document  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	ation is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	elto
Title: HST Lechnical 1971	essimal
Date: (11.1)1	



### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCLP

02.02.01

Printed Name

Kellie J. Skeltor

Title / Agency

HSE Tech Dof.

Address

A109 E. NAIN ST

Signature

Date



#### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

Halliburton Energy Services

Project #:

92132-001

Sample ID:

Wash Bay Solids

Date Reported:

02-07-01

Lab ID#:

19170

Date Sampled:

02-02-01

Sample Matrix:

Sludge

Date Received:

02-02-01

Preservative:

Cool

Date Analyzed:

Condition:

02-05-01

Cool and Intact

Chain of Custody:

8497

**Parameter** 

Result

**IGNITABILITY:** 

Negative

CORROSIVITY:

Negative

pH = 8.20

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

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

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

REACTIVITY:

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

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

Reference:

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

Comments:

4109 E. Main St.

( Misterin Walters
Review



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

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-06-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit:

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

4109 E. Main St.

Analyst C. Ogenin

Misterie m Walter



### EPA METHOD 8040 PHENOLS

- · · · · ·	
Project #:	92132-001
Date Reported:	02-09-01
Date Sampled:	02-02-01
Date Received:	02-02-01
Date Extracted:	02-05-01
Date Analyzed:	02-09-01
Analysis Requested:	TCLP
	Date Sampled: Date Received: Date Extracted: Date Analyzed:

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
		<del>-</del>
•	2-Fluorophenoi	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:

4109 E. Main St.

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Misting Walters
Review



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

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-09-01
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
Hexachioroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	

2-fluorobiphenyl

100%

References:

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

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

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

Note:

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

Comments:

4109 E. Main St.

Den L. aferra

Review Lasters Lasters



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Proiect #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-07-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Analyzed:	02-06-01
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.052	0.001	5.0
Barium	0.546	0.001	100
Cadmium	0.045	0.001	1.0
Chromium	0.067	0.001	5.0
Lead	0.079	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.016	0.001	1.0
Silver	0.007	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4109 E. Main St.

Den L. Glercis

Review

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# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-06-01
Laboratory Number:	02-06-TCV	Date Sampled:	· N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A .	Date Analyzed:	02-06-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample 19170 - 19171.

Den L. Ogler an

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Review



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

Client:	QA/QC	Project #:	N/A
Cilent.	QAQC	•	IV/A
Sample ID:	Method Blank	Date Reported:	02-06-01
Laboratory Number:	02-05-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	02-05-01
•		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
---------------------------	-----------	------------------	--

Trifluorotoluene Bromofluorobenzene 99% 98%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample 19170 - 19171.

Alle L. Officer

Assisting Walles



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

	Duplicate	·	
Sample	Sample	Detection	
Result	Result	Limits	Percent
(mg/L)	(mg/L)	(mg/L)	Difference
ND	ND	0.0001	0.0%
ND	ND	0.0001	0.0%
· ND	ND	0.0001	0.0%
ND	ND	0.0001	0.0%
ND	ND	0.0001	0.0%
ND	ND	0.0001	0.0%
ND	ND	0.0001	0.0%
ND	ND .	0.0003	0.0%
ND	ND	0.0005	0.0%
ND	ND	0.0003	0.0%
ND	ND	0.0002	0.0%
	Result (mg/L) ND ND ND ND ND ND ND ND	Sample Result (mg/L)  ND ND ND ND ND ND ND ND ND ND ND ND ND	Sample         Sample         Detection           Result         Result         Limits           (mg/L)         (mg/L)         (mg/L)    ND  ND  ND  ND  ND  ND  ND  ND  ND  N

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.

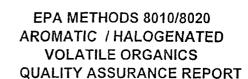
Comments:

QA/QC for sample 19170 - 19171.

Alle C. Cefer

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Client:

QA/QC

Sample ID:

Matrix Spike

N/A

Laboratory Number:

19170

02-06-01

Sample Matrix:

N/A

Analysis Requested:

**TCLP Extract** 

N/A

Condition:

**TCLP** 

Date Received: Date Analyzed:

Date Reported:

Date Sampled:

Project #:

02-06-01

N/A .

Date Extracted:

N/A

	Commis	Culle	Spiked	Det		SW-846
	Sample Result	Spike Added	Sample Result	Det. Limit	Percent	% Rec.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Accept. Range
Virginia Olahari da	ND	. 0.050	0.0405	. 0.0004	000/	00.400
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.049	0.0001	98%	47-132
Chloroform	ND .	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	· ND	0.050	0.050	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
<b>Fetrachloroethene</b>	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19170 - 19171.



## EPA METHOD 8040 PHENOLS

## Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	. N/A
Sample Matrix: 1	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-09-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Alayst P. Queru

Christini m Walter
(Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method ₿lank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Date Analyzed:	02-09-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Alex P. Oyler a

(Review Malter



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Date Analyzed:	02-09-01
		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:	Paramete	er	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 19170 - 19171.

Analyst Poleen

Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-09-01
•	•	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

97%

References:

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

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

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Men L. aferra

Ahristen m Walter Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool and Intact	Date Analyzed:	02-09-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

## 2-fluorobiphenyl

97%

References:

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

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

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Men L. Oferce

Misteriem Walter



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-05-01
Condition:	N/A	Date Analyzed:	02-09-01
	·	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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 19170 - 19171.

Analyst C. Oleven

Mistin m Laster Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	02-06-TCM QA/QC	Date Reported:	02-07-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate	Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Salam Sa	Method			e. Duplicat		Acceptance
Conc. (mg/L) Arsenic	Blank ND	Blank ND	Limit 0.001	0.052	0.051	1.9%	Range
Barium	ND	ND	0.001	0.546	0.542	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.045	0.044	2.2%	0% - 30%
Chromium	ND	ND	0.001	0.067	0.065	3.0%	0% - 30%
Lead	ND	ND	0.001	0.079	0.08	1.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%
Silver	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%

Spike (*Conc.(mg/L)	Spike "Added	The Control of the Co	The Control of the Co	Percent (Recovery	Commence of the commence of the contract of the commence of th
Arsenic	0.500	0.052	0.550	99.6%	80% - 120%
Barium	0.500	0.546	1.04	99.4%	80% - 120%
Cadmium	0.500	0.045	0.543	99.6%	80% - 120%
Chromium	0.500	0.067	0.565	99.6%	80% - 120%
Lead	0.500	0.079	0.577	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.016	0.515	99.8%	80% - 120%
Silver	0.500	0.007	0.506	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19170 - 19171.

Analyst

Review

## **CHAIN OF CUSTODY RECORD**

08497

	<del></del>		<u></u>							" ~
Client / Project Name Hall DBLRED	o ENER	.64 =-S	Project Location 409 E.	Main St.		ANALYSIS / PARAMETERS				
Sampler:			Client No. 92132	2-001	No. of Containers	LP HAD			Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No	1/0				
Wash-But Socios	וסיצמינם	14:00	19170	Studge	1					
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						-			<del></del>	
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						<del>                                     </del>			<del></del>	
Relinquished by: (Signat				Date Time	\	: (Signature)	_		Date	Time
Relinquished by: (Signat			<del></del>	02.1201 15:15	Received by		n Watter		2/2/61	15:15
Relinquished by: (Signat	ture)	·			Received by	r: (Signature)				
				ENVIRO	TECH	HINC	, ,	Sampl	le Receipt	
									Y	N N/A
-				5796 U.S Farmington, N	5. Highway Iew Mexic			Received Intac	it .	
				(505)	632-0615		,	Cool - Ice/Blue Id	ce V	

District 2 - (505) 393-6161 P.O. Box 1980 Hebbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 "trict III - (505) 334-6178 Rio Brazos Road c, NM 87410 مدر

District IV - (505) 827-7131

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

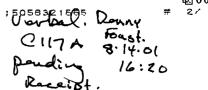
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 92102

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 8.14.01	4. Generator Robert L Burgless
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site STRIBLIAG
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Marsico
7. Location of Material (Street Address or ULSTR)	SWY Sec 31 T31A RISW SAA Juan County
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept olifield exempt wastes will be accepted acceptance.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by a certification of waste from the ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BSE LES From oil production TANK; parafin & Solids: Notes Transporter will provide	
Estimated Volume 25 bb cy Known Volume (to be entered by the open SIGNATURE: Landfarm M	
Waste Management Facility Authorized Agent  TYPE OR PRINT NAME:  Harlan M. Brown  TEL	EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Term em TITLE: Geolog	DATE: 8/20/01  DATE: 8-20-1
APPROVED BY: TLE:	DATE: O LO





## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEO DISTRICT OFFICE 1000 RIO BRAZDE ROAD AZTEC, NEW MEXICO 87410 (505) 324-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR JENNIPER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name: Envirotech Soil Remediation Facility
R. L. BAYLESS	•
PO BOT 128	Landerm #2 Hilltop, New Mexico
FARMINGTON, NM 27401	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
STRIBLING COM HO.	
5W/4, 31-3/N-12N	
SAN JUAN COUNTY, NM	·
Attach list of originating sites as appropriate	
1 Course and Danasiation of Waste	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10
25 BBLS OK OIL TANK BOTTOM	MATERIAL; UN MARKETABLE OIL,
WATER, PARASIN, JOLIDS, ETC.	
	•
- ML/	·
1 OM MUARTHY	representative for:
RL BAYLES (Print Name)	do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	(a) (a) (a) (a)
EXEMPT oilfield waste NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
"	any amount non-harredous waste defined shave.
and that nothing has been added to the exempt or no	Pagempt Hormazardous Waste Centres acove.
For NON-EXEMPT waste the following documenta	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	•
Chain of Custody	
—	deterrally Occurring Padianative Motorial (NORM) purculant
	Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	<b>/</b>
an th	#
Name (Original Signature):	V (U
	чу
Title: ENGINEEP	
~! !	

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

District IV - (505) 827-7131

~\_.c. NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Env. JN: \_98059

1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes No 🔀	5. Originating Site Aztec, Yard
2. Management Facility Destination Facility Landfarm #2	6. Transporter BERRANO'S
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Margosco
7. Location of Material (Street Address or ULSTR)	11 25 HWY 516 AZTEC, NM 87410
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted an accept one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to in of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Cleaning Sludge from wasn	Bay sump, oi Waster supers
d. holding tank.	001112737
Volatile Organics - Les EAA-acathod !  Alabals - Tatal Mabals.  RECEIVE	AUG 2001 BY
Atis 16;	466,00 17, 36,50
Environmental Oil Conservation Estimated Volume 400 6665 cy Known Volume (to be entered by the open	Bureau Division the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE Landfarm M  Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: S·(3-∞[ EPHONE NO. 50>-632-0615
APPROVED BY: APPRO	Chief DATE: 8/20/01
	T unit di

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

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 98059

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes ☐ No ⊠	5. Originating Site Aztec, Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Serrano's
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Musico
7. Location of Material (Street Address or ULSTR)	1125 HWY 516 AZTEC, NM 87410
9. Circle One:	
Generator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigner.	on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Cleaning Sledge From wash  d. holding tank.  Volatile Organics - US EAA ocathod  Matals - Total Matals.	V-100-100
Estimated Volume — 40 66 s cy Known Volume (to be entered by the op-	erator at the end of the haul) ————— cy
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TEL	DATE: S.(3.0)  EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Deny Found TITLE: Geo/o	9/3/0/ DATE: 8//3/0/
APPROVED BY: TITLE:	DATE:

1. Generator Name and Address:



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO \$7410 (505) 334-6178 Fex (805)334-6178

GARY E. JOHNSON

JENNIPER A. SALISBURY CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

2. Destination Name:

UNIVERSAL COMPRESSION, TUC.  3440 MORNING STAR Drive	Envirotech Soil Remediation Facility
Farmington, N. M. B7401	Landarm #2 Hilltop, New Mexico
3. Originating Site (name):  Unjurish Compression, Inc (was  1135 Huy 516  Actec, W. Mex 87410  Attach list of originating elter as appropriate  4. Source and Description of Waste  Sludge is water from wash	Location of the Waste (Street address &/or ULSTR):
1988, regulatory determination, the above described to EXEMPT cilfield waste NON-EXEM analysis or	do hereby certify that, y. Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or nor  For NON-EXEMPT waste the following documental  MSDS Information  RCRA Hazerdous Waste Analysis  Chain of Custody	
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	laturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	D. Komi
Title: <u>Environmental</u>	
Date: 8/10/01	



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

CLIENT	: ENVIROTECH, INC.	PINNACLE ID	: 107067
PROJECT#	: 98059	DATE RECEIVED	: 07/17/01
PROJECT NAME	: UNIVERSAL COMP.	REPORT DATE	: 07/31/01
PINNACLE			DATE
ID#	CLIENT DESCRIPTION	MATRIX	COLLECTED
107067 - 01	MASTE MATER TANK (20384)	AOUEOUS	07/12/01





#### GC/MS RESULTS

TEST CLIENT

: VOLATILE ORGANICS EPA METHOD 8260

: ENVIROTECH, INC.

PROJECT#

: 98059

PINNÁCLE I.D.:

107067

PROJECT NAME

: UNIVERSAL COMP.

DATÉ RECEIVED : 07/17/01

PROJECT NAME	: UNIVERSAL CON	/IP	enante de la companya			
SAMPLE			DATE	DATE	DATE	DIL.
ID'#	CLIENT ID	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
107067-01	WasteWater Tank	AQUEOUS	07/13/01	N/A	07/25/01	5
PARAMETER (CAS#)	DET. LIMIT	RESULT	UNITS		·	
Dichlerediffueremethone (75.74.9)	1.0	< 5.0	ua!!			
Dichlorodifluoromethane (75-71-8) Chloromethane (74-87-9)	1.0	< 5.0°	ug/L			
			ug/L			
Vinyl Chloride (75-01-4)	1.0	< 5.0	ug/L			
Bromomethane (74-83-9)	1.0	< 5.0	ug/L			
Chloroethane (75-00-3)	1:.0	< 5.0	ug/L			
Trichlorofluoromethane (75-69-4)	1.0	< 5.0	ug/L			
Acetone (67-64-1)	10	360	ug/L			
Acrolein (107-02-8)	5.0	< 25	ug/L	•	•	
1,1-Dichloroethene (75-35-4)	1.0	< 5.0	ug/L			
lodomethane (74-88-4)	1.0	< 5.0	ug/L			
Methylene Chloride (75-09-2)	1.0	< 5.0	ug/L			
Acrylonitrile (107-13-1)	5.0	< 25	ug/L		•	
cis-1,2-Dichloroethene (107-06-2)	1.0	< 5.0	ug/L			
Methyl-t-butyl Ether (628-28-4)	1.0	< 5.0	ug/L	•		
1,1,2-Trichlorotrifluoroethane (76-13-1)	5.0	< 25	ug/L			
1,1-Dichloroethane (75-34-3)	1.0	< 5.0	ug/L			
trans-1,2-Dichloroethene (156-60-5)	1.0	< 5.0	ug/L			
2-Butanone (78-93-3)	10	55	ug/L			
Carbon Disulfide (75-15-0)	1.0	8.4	ug/L			
Bromochloromethane (74-97-5)	1.0	< 5.0	ug/L			
Chloroform (67-66-3)	1.0	< 5.0	ug/L			
2,2-Dichloropropane (594-20-7)	1.0	< 5.0	ug/L			
1,2-Dichloroethane (107-06-2)	1.0	< 5.0	ug/L			
Vinyl Acetate (108-05-4)	1.0	< 5.0	ug/L			
1,1,1-Trichloroethane (71-55-6)	1.0	< 5.0	ug/L	*		
1,1-Dichloropropene (563-58-6)	1.0	< 5.0	ug/L			
Carbon Tetrachloride (56-23-5)	1.0	< 5.0	ug/L			
Benzene (71-43-2)	1.0	< 5.0	ug/L			
1,2-Dichloropropané (78-87-5)	1.0	< 5.0	ug/L			
Trichloroethene (79-01-6)	1.0	< 5.0	ug/L			
Bromodichloromethane (75-27-4)	1.0	< 5.0	ug/L			
2-Chloroethyl Vinyl Ether (110-75-8)	10	< 50	ug/L			
cis-1,3-Dichloropropene (10061-01-5)	1.0	< 5.0	ug/L			
trans-1,3-Dichloropropene (10061-02-6)	1.0	< 5.0	ug/L			
1,1,2-Trichloroethane (79-00-5)	1.0	< 5.0	ug/L			•
1,3-Dichloropropane (142-28-9)	1.0	< 5.0	ug/L			
Dibromomethane (74-95-3)	1.0	< 5.0	ug/L			•
Toluene (108-88-3)	1.0	< 5.0	ug/L			
,	1.0	< 5.0	ug/L			
1,2-Dibromoethane (106-93-4)	- 10	< 50	ug/L ug/L			
4-Methyl-2-Pentanone (108-10-1)	10	< 50	ug/L			
2-Hexanone (591-78-6)		< 5.0	ug/L ug/L			
Dibromochloromethane (124-48-1)	1.0		_			
Tetrachloroethene (127-18-4)	1.0	< 5.0	ug/L			



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

#### GC/MS RESULTS

TEST

: VOLATILE ORGANICS ÉPA MÉTHÓD 8260

CLIENT

: ENVIROTECH, INC.

PROJECT#

PINNACLE I.D. :

107067

Bromofluorobenzene

: 98059

DATE RECEIVED:

07/17/01

PROJECT NAME	: UNIVERSAL COM	1P.		** * * * * * * * * * * * * * * * * * * *		
SAMPLE			DATE	DATE	DATE	DIL.
ID#	CLIENT ID	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
107067-01	WasteWater Tank	AQUEOUS	07/13/01	N/A	07/25/01	5
PARAMETER (CAS#)	DET. LIMIT	RESULT	UNITS	wales to be a first		
Chlorobenzene (108-90-7)	1.0	< 5.0	ug/Ľ			
Ethylbenzene (100-41-4)	1.0	< 5.0	ug/L	•		
1,1,1,2-Tetrachloroethane (630-20-6)	1.0	< 5.0	ug/L			
m&p Xylenes (108-38-3, 106-42-3)	1.0	< 5.0	ug/L			
o-Xylene (95-47-6)	1.0	< 5.0	ug/L			
Styrene (100-42-5)	1.0	< 5.0	ug/L			
Bromoform (75-25-2)	1.0	< 5.0	ug/L			
1,1,2,2-Tetrachloroethane (79-34-5)	1.0	< 5.0	ug/L	4		
1,2,3-Trichloropropane (96-18-4)	1.0	< 5.0	ug/L			
Isopropyl Benzene (98-82-8)	1.0	< 5.0	ug/L			
Bromobenzene (108-86-1)	1.0	< 5.0	ug/L			
trans-1,4-Dichloro-2-Butene (110-57-6)	1.0	< 5.0	ug/Ŀ			
n-Propylbenzene (103-65-1)	1.0	< 5.0	ug/L	•		
2-Chlorotoluene (95-49-8)	1.0	< 5.0	ug/L	,		
4-Chlorotoluene (106-43-4)	1.0	< 5.0	ug/L	<b>V</b>		
1,3,5-Trimethylbenzene (108-67-8)	1.0	5.4	ug/L			
tert-Butylbenzene (98-06-6)	1.0	< 5.0	ug/L	•		
1,2,4-Trimethylbenzene (95-63-6)	1.0	< 5.0	ug/L			
sec-Butylbenzene (135-98-9)	1.0	< 5.0	ug/L			
1,3-Dichlorobenzene (541-73-1)	1.0	< 5.0	ug/L			
1,4-Dichlorobenzene (106-46-7)	1.0	< 5.0	ug/L			
p-Isopropyltoluene (99-87-6)	1.0	9.3	ug/L			
1,2-Dichlorobenzene (95-50-1)	1.0	< 5.0	ug/L			
n-Butylbenzene (104-51-8)	1.0	< 5.0	ug/L			
1,2-Dibromomo-3-chloropropane (96-12-8)	1.0	< 5.0	ug/L			
1,2,4-Trichlorobenzene (120-82-1)	1.0	< 5.0	ug/L			
Naphthalene (91-20-3)	1.0	29	ug/L			
Hexachlorobutadiene (87-68-3)	1.0	< 5.0	ug/L			
1,2,3-Trichlorobenzene (87-61-6)	1.0	< 5.0	uġ/L			
SURROGATE % RECOVERY						
1,2-Dichloroethane-d4		92				•
		(80 - 120)				
Toluene-d8		` 95				
Toldono do		(88 - 110)				
		( = = /				

(86 - 115)





### GC/MS RESULTS

TEST CLIENT

: VOLATILE ORGANICS EPA METHOD 8260 : ENVIROTECH, INC.

PROJECT#

: 98059

PINNACLE I.D. :

107067

PROJECT NAME	: UNIVERSAL C	COMP.				
SAMPLE				DATE	DATE	DIL.
ID#	BATCH	M	ATRIX	EXTRACTED	ANALYZED	FACTOR
REAGENT BLANK	072501	, AQ	UÉOUS	N/A	07/25/01	1
PARAMETER (CAS#)	DET. LIMIT	RESULT	UNITS	·		
Dichlorodifluoromethane (75-71-8)	1.0	< 1.0	ug/L			
Chloromethane (74-87-9)	1.0	< 1.0	ug/L			
Vinyl Chloride (75-01-4)	1.0	< 1.0	ug/L			
Bromomethane (74-83-9)	1.0	< 1.0	ug/L	,		
Chloroethane (75-00-3)	1.0	< 1.0	ug/L			
Trichlorofluoromethane (75-69-4)	1.0	< 1.0	ug/Ĺ			
Acetone (67-64-1)	10	< 10	ug/L			
Acrolein (107-02-8)	5.0	< 5.0	ug/L			
1,1-Dichloroethene (75-35-4)	1.0	< 1.0	ug/L			
lodomethane (74-88-4)	1.0	< 1.0	ug/L			
Methylene Chloride (75-09-2)	1.0	< 1.0	ug/L			
Acrylonitrile (107-13-1)	5.0	< 5.0	ug/L	•		
cis-1,2-Dichloroethene (107-06-2)	1.0	< 1.0	ug/L			•
Methyl-t-butyl Ether (628-28-4)	1.0	< 1.0	ug/L			
1,1,2-Trichlorotrifluoroethane (76-13-1)	5.0	< 5.0	ug/L			
1,1-Dichloroethane (75-34-3)	1.0	< 1.0	ug/L			
trans-1,2-Dichloroethene (156-60-5)	1.0	< 1.0	ug/L:			
2-Butanone (78-93-3)	10	< 10	ug/L			
Carbon Disulfide (75-15-0)	1.0	< 1.0	ug/L			
Bromochloromethane (74-97-5)	1.0	< 1.0	ug/L			
Chloroform (67-66-3)	1.0	< 1.0	ug/L			
2,2-Dichloropropane (594-20-7)	1.0	< 1.0	ug/L			
1,2-Dichloroethane (107-06-2)	1.0	< 1.0	ug/L			
Vinyl Acetate (108-05-4)	1.0	< 1.0	ug/L			
1,1,1-Trichloroethane (71-55-6)	1.0	< 1.0	ug/L			
1,1-Dichloropropene (563-58-6)	1.0	< 1.0	ug/L			,
Carbon Tetrachloride (56-23-5)	1.0	< 1.0	ug/L			
Benzene (71-43-2)	1.0	< 1.0	ug/L			
1,2-Dichloropropane (78-87-5)	1.0	< 1.0	ug/L			
Trichloroethene (79-01-6)	1.0	< 1.0	ug/L			
Bromodichloromethane (75-27-4)	1.0	< 1.0	ug/L			
2-Chloroethyl Vinyl Ether (110-75-8)	10	< 10	ug/L			
cis-1,3-Dichloropropene (10061-01-5)	1.0	< 1.0	ug/L			
trans-1,3-Dichloropropene (10061-02-6)	1.0	< 1.0	ug/L			
1,1,2-Trichloroethane (79-00-5)	1.0	< 1.0	ug/L			
1,3-Dichloropropane (142-28-9)	1.0	< 1.0	ug/L			
Dibromomethane (74-95-3)	1.0	< 1.0	ug/L		•	
• • •	1.0	< 1.0	ug/L			
Toluene (108-88-3)		< 1.0	ug/L			
1,2-Dibromoethane (106-93-4)	1.0	< 10	ug/L ug/L			
4-Methyl-2-Pentanone (108-10-1)	10		•			
2-Hexanone (591-78-6)	10	< 10	ug/L			
Dibromochloromethane (124-48-1)	1.0	< 1.0	ug/L			
Tetrachloroethene (127-18-4)	1.0	< 1.0	ug/L			



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#### GC/MS RESULTS

: VOLATILE ORGANICS EPA METHOD 8260

TEST CLIENT

: ENVIROTECH, INC.

PROJECT#

: 98059

PROJECT NAME

: UNIVERSAL COMP.

PINNACLE I.D. :

107067

REAGENT BLANK   072501	PROJECT NAME :	UNIVERSAL	JUIVIP.					
REAGENT BLANK   072501								
PARAMETER (CAS#)   DET. LIMIT   RESULT   UNITS	<u>ID#</u>	BATCH	MA	TRIX	EXTRACTED	ANALYZED	FACTOR	
Chlorobenzene (108-90-7)   1.0	REAGENT BLANK	072501	AQU	EOUS	N/A	07/25/01	11_	
Ethylbenzene (100-41-4)	PARAMETER (CAS#)	DET. LIMIT	RESULT	UNITS	·			
1,1,1,2-Tetrachloroethane (630-20-6)	Chlorobenzene (108-90-7)	1.0	< 1.0	ug/L				
m&p Xylenes (108-38-3, 106-42-3)	Ethylbenzene (100-41-4)	1.0	< 1.0	ug/L				
o-Xylene (95-47-6)	1,1,1,2-Tetrachloroethane (630-20-6)	1.0	< 1.0	ug/L				
Styrene (100-42-5)	m&p Xylenes (108-38-3, 106-42-3)	1.0	< 1.0	ug/L				
Bromoform (75-25-2) 1.0 < 1.0 ug/L 1,1,2,2-Tetrachloroethane (79-34-5) 1.0 < 1.0 ug/L 1,2,3-Trichloropropane (96-18-4) 1.0 < 1.0 ug/L 1sopropyl Benzene (98-82-8) 1.0 < 1.0 ug/L 1sopropyl Benzene (98-82-8) 1.0 < 1.0 ug/L 1sopropyl Benzene (108-86-1) 1.0 < 1.0 ug/L 1sopropyl Benzene (108-86-1) 1.0 < 1.0 ug/L 1rans-1,4-Dichloro-2-Butene (110-57-6) 1.0 < 1.0 ug/L 1-Propylbenzene (103-65-1) 1.0 < 1.0 ug/L 2-Chlorotoluene (95-49-8) 1.0 < 1.0 ug/L 2-Chlorotoluene (95-49-8) 1.0 < 1.0 ug/L 3,5-Trimethylbenzene (108-67-8) 1.0 < 1.0 ug/L 1,2,4-Trimethylbenzene (95-63-6) 1.0 < 1.0 ug/L 1,2-Lichlorobenzene (95-63-6) 1.0 < 1.0 ug/L 1,3-Dichlorobenzene (95-63-6) 1.0 < 1.0 ug/L 1,3-Dichlorobenzene (108-46-7) 1.0 < 1.0 ug/L 1,4-Dichlorobenzene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-50-1) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-63-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-63-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (96-12-8 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (96-12-8 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (97-61-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (98-68-3) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-51-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-51-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-67-8) 1.0 < 1.0 ug/L	o-Xylene (95-47-6)	1.0	< 1.0	ug/L				
1,1,2,2-Tetrachloroethane (79-34-5)       1.0       < 1.0	Styrene (100-42-5)	1.0	< 1.0	ug/L				
1,2,3-Trichloropropane (96-18-4) 1.0	Bromoform (75-25-2)	1.0	< 1.0	ug/Ŀ				
Sopropy  Benzene (98-82-8)	1,1,2,2-Tetrachloroethane (79-34-5)	1.0	< 1.0	ug/L				
Bromobenzene (108-86-1)  trans-1,4-Dichloro-2-Butene (110-57-6)  1.0  < 1.0  ug/L  -Propylbenzene (103-65-1)  1.0  < 1.0  ug/L  2-Chlorotoluene (95-49-8)  1.0  < 1.0  ug/L  4-Chlorotoluene (106-67-8)  1.0  < 1.0  ug/L  4-Chlorotoluene (108-67-8)  1.0  < 1.0  ug/L  tert-Butylbenzene (98-06-6)  1.0  < 1.0  ug/L  tert-Butylbenzene (98-68-6)  1.0  < 1.0  ug/L  1,2,4-Trimethylbenzene (98-68-6)  1.0  < 1.0  ug/L  1,3-Dichlorobenzene (541-73-1)  1.0  < 1.0  ug/L  1,4-Dichlorobenzene (106-46-7)  1.0  < 1.0  ug/L  1,4-Dichlorobenzene (106-46-7)  1.0  < 1.0  ug/L  1,2-Dichlorobenzene (98-50-1)  1.0  < 1.0  ug/L  1,2-Dichlorobenzene (98-50-1)  1.0  < 1.0  ug/L  1,2-Dichlorobenzene (106-46-7)  1.0  < 1.0  ug/L  1,2-Dichlorobenzene (98-12-8  1.0  < 1.0  ug/L  1,2-Dichlorobenzene (106-82-1)  1.0  < 1.0  ug/L  1,2-Dichlorobenzene (100-82-1)  1.0  < 1.0  ug/L  1,2-Dichlorobenzene (120-82-1)  1.0  < 1.0  ug/L  1,2-Trichlorobenzene (120-82-1)  1.0  < 1.0  ug/L  1,2-Trichlorobenzene (87-68-3)  1.0  < 1.0  ug/L  1,2-Trichlorobenzene (87-68-3)  1.0  < 1.0  ug/L  1,2-Trichlorobenzene (87-68-6)  1.0  ug/L  Naphthalene (91-20-3)  1.0  1.0  1.0  ug/L  SURROGATE % RECOVERY  1,2-Dichloroethane-d4  87  (80-120)  Toluene-d8	1,2,3-Trichloropropane (96-18-4)	1.0	< 1.0	ug/L				
trans-1,4-Dichloro-2-Butene (110-57-6) 1.0 < 1.0 ug/L n-Propylbenzene (103-65-1) 1.0 < 1.0 ug/L 2-Chlorotoluene (95-49-8) 1.0 < 1.0 ug/L 4-Chlorotoluene (106-43-4) 1.0 < 1.0 ug/L 1,3,5-Trimethylbenzene (108-67-8) 1.0 < 1.0 ug/L tert-Butylbenzene (95-68-6) 1.0 < 1.0 ug/L 1,2,4-Trimethylbenzene (95-63-6) 1.0 < 1.0 ug/L sec-Butylbenzene (95-63-6) 1.0 < 1.0 ug/L 1,3-Dichlorobenzene (541-73-1) 1.0 < 1.0 ug/L 1,4-Dichlorobenzene (541-73-1) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (96-12-8 1.0 < 1.0 ug/L 1,2-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L 1,2-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L 1,2-Trichlorobenzene (87-68-3) 1.0 < 1.0 ug/L 1,2-Trichlorobenzene (87-68-3) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-68-3) 1.0 < 1.0 ug/L	Isopropyl Benzene (98-82-8)	1.0	< 1.0	ug/L				
n-Propylbenzene (103-65-1) 1.0 < 1.0 ug/L 2-Chlorotoluene (95-49-8) 1.0 < 1.0 ug/L 4-Chlorotoluene (106-43-4) 1.0 < 1.0 ug/L 4-Chlorotoluene (106-63-4) 1.0 < 1.0 ug/L 1,3,5-Trimethylbenzene (108-67-8) 1.0 < 1.0 ug/L 1,2,4-Trimethylbenzene (98-06-6) 1.0 < 1.0 ug/L 1,2,4-Trimethylbenzene (95-63-6) 1.0 < 1.0 ug/L 1,2,4-Trimethylbenzene (135-98-9) 1.0 < 1.0 ug/L 1,3-Dichlorobenzene (541-73-1) 1.0 < 1.0 ug/L 1,3-Dichlorobenzene (541-73-1) 1.0 < 1.0 ug/L 1,4-Dichlorobenzene (96-67) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-50-1) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-50-1) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-50-1) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (104-51-8) 1.0 < 1.0 ug/L 1,2-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L 1,2,4-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L 1,2,3-Trichlorobenzene (87-68-3) 1.0 < 1.0 ug/L 1,2,3-Trichlorobenzene (87-61-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-61-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-68-3) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-61-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-68-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-68-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-68-8) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-61-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (87-61-6) 1.0 < 1.0 ug/L	Bromobenzene (108-86-1)	1.0	< 1.0	ug/L				
2-Chlorotoluene (95-49-8) 4-Chlorotoluene (106-43-4) 1.0 4-Chlorotoluene (106-67-8) 1.0 4-Chlorotoluene (106-67-8) 1.0 4-Chlorotoluene (106-67-8) 1.0 4-Chlorotoluene (106-67-8) 1.0 4-D.0	trans-1,4-Dichloro-2-Butene (110-57-6)	1.0	< 1.0	ug/L		•		
4-Chlorotoluène (106-43-4)  1.0	n-Propylbenzene (103-65-1)	1.0	< 1.0	ug/L				
1,3,5-Trimethylbenzene (108-67-8) 1.0 1.0 1,2,4-Trimethylbenzene (95-63-6) 1.0 1,2,4-Trimethylbenzene (95-63-6) 1.0 1,3,4-Trimethylbenzene (135-98-9) 1.0 1,3-Dichlorobenzene (541-73-1) 1.0 1,3-Dichlorobenzene (541-73-1) 1.0 1,4-Dichlorobenzene (106-46-7) 1.0 1,4-Dichlorobenzene (106-46-7) 1.0 1,2-Dichlorobenzene (95-50-1) 1.0 1,2-Dichlorobenzene (95-50-1) 1.0 1,2-Dichlorobenzene (104-51-8) 1.0 1,2-Dibromomo-3-chloropropane (96-12-8) 1,2-Dichlorobenzene (120-82-1) 1,0 1,2,4-Trichlorobenzene (120-82-1) 1,0 1,2,3-Trichlorobenzene (87-68-3) 1,0 1,0 1,2,3-Trichlorobenzene (87-61-6) 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	2-Chlorotoluene (95-49-8)	1.0	< 1.0					
tert-Butylbenzene (98-06-6)	4-Chlorotoluene (106-43-4)	1.0	< 1.0	ug/L	v.;			
1,2,4-Trimethylbenzene (95-63-6) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1,3,5-Trimethylbenzene (108-67-8)	1.0	< 1.0	ug/L		•		
1,2,4-Trimethylbenzene (95-63-6) 1.0 < 1.0 ug/L sec-Butylbenzene (135-98-9) 1.0 < 1.0 ug/L 1,3-Dichlorobenzene (541-73-1) 1.0 < 1.0 ug/L 1,4-Dichlorobenzene (106-46-7) 1.0 < 1.0 ug/L 1,4-Dichlorobenzene (106-46-7) 1.0 < 1.0 ug/L p-Isopropyltoluene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-50-1) 1.0 < 1.0 ug/L n-Butylbenzene (104-51-8) 1.0 < 1.0 ug/L 1,2-Dibromomo-3-chloropropane (96-12-8) 1.0 < 1.0 ug/L 1,2,4-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L Naphthalene (91-20-3) 1.0 < 1.0 ug/L Hexachlorobutadiene (87-68-3) 1.0 < 1.0 ug/L 1,2,3-Trichlorobenzene (87-61-6) 1.0 < 1.0 ug/L 1,2,3-Trichlorobenzene (87-61-6) 1.0 < 1.0 ug/L 1,2-Dichloroethane-d4 87 (80 - 120) Toluene-d8 87 (80 - 120) Toluene-d8	tert-Butylbenzene (98-06-6)	1.0	< 1.0	ug/L	•			
sec-Butylbenzene (135-98-9)       1.0       < 1.0		1.0	< 1.0	ug/L				
1,4-Dichlorobenzene (106-46-7)       1.0       < 1.0		1.0	< 1.0	-				
1,4-Dichlorobenzene (106-46-7) 1.0 < 1.0 ug/L p-Isopropyltoluene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-50-1) 1.0 < 1.0 ug/L n-Butylbenzene (104-51-8) 1.0 < 1.0 ug/L 1,2-Dibromomo-3-chloropropane (96-12-8 1.0 ug/L 1,2,4-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L Naphthalene (91-20-3) 1.0 < 1.0 ug/L Hexachlorobutadiene (87-68-3) 1.0 < 1.0 ug/L 1,2,3-Trichlorobenzene (87-61-6) 1.0 < 1.0 ug/L SURROGATE % RECOVERY 1,2-Dichloroethane-d4 87 (80 - 120) Toluene-d8 93 (88 - 110)	1,3-Dichlorobenzene (541-73-1)	1.0	< 1.0	ug/L				
p-Isopropyltoluene (99-87-6) 1.0 < 1.0 ug/L 1,2-Dichlorobenzene (95-50-1) 1.0 < 1.0 ug/L n-Butylbenzene (104-51-8) 1.0 < 1.0 ug/L 1,2-Dibromomo-3-chloropropane (96-12-8 1.0 < 1.0 ug/L 1,2,4-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L Naphthalene (91-20-3) 1.0 < 1.0 ug/L Hexachlorobutadiene (87-68-3) 1.0 < 1.0 ug/L 1,2,3-Trichlorobenzene (87-61-6) 1.0 < 1.0 ug/L  SURROGATE % RECOVERY 1,2-Dichloroethane-d4 87 (80 - 120) Toluene-d8 93 (88 - 110)	1,4-Dichlorobenzene (106-46-7)	1.0	< 1.0	-				
1,2-Dichlorobenzene (95-50-1)       1.0       < 1.0		1.0	< 1.0					
n-Butylbenzene (104-51-8) 1.0 < 1.0 ug/L 1,2-Dibromomo-3-chloropropane (96-12-8 1.0 ug/L 1,2,4-Trichlorobenzene (120-82-1) 1.0 < 1.0 ug/L Naphthalene (91-20-3) 1.0 < 1.0 ug/L Hexachlorobutadiene (87-68-3) 1.0 < 1.0 ug/L 1,2,3-Trichlorobenzene (87-61-6) 1.0 < 1.0 ug/L  SURROGATE % RECOVERY 1,2-Dichloroethane-d4 87  (80 - 120) Toluene-d8 93 (88 - 110)	, , , ,	1.0	< 1.0	ug/L				
1,2-Dibromomo-3-chloropropane (96-12-8	· · · · · · · · · · · · · · · · · · ·	1.0	< 1.0	uġ/L				
1,2,4-Trichlorobenzene (120-82-1)       1.0       < 1.0	•	1.0	< 1.0	ug/L				
Hexachlorobutadiene (87-68-3)  1.0 < 1.0 ug/L  1,2,3-Trichlorobenzene (87-61-6)  1.0 < 1.0 ug/L  SURROGATE % RECOVERY  1,2-Dichloroethane-d4  (80 - 120)  Toluene-d8  93 (88 - 110)		1.0	< 1.0					
Hexachlorobutadiene (87-68-3)  1.0 < 1.0 ug/L  1,2,3-Trichlorobenzene (87-61-6)  1.0 < 1.0 ug/L  SURROGATE % RECOVERY  1,2-Dichloroethane-d4  (80 - 120)  Toluene-d8  93 (88 - 110)	Naphthalene (91-20-3)	1.0	< 1.0	ug/L				
1,2,3-Trichlorobenzene (87-61-6)  1.0 < 1.0 ug/L  SURROGATE % RECOVERY  1,2-Dichloroethane-d4  87  (80 - 120)  Toluene-d8  93  (88 - 110)		1.0	< 1.0	ug/L				
1,2-Dichloroethane-d4		1.0	< 1.0	ug/L				
1,2-Dichloroethane-d4	SURROGATE % RECOVERY							
(80 - 120) Toluene-d8 93 (88 - 110)			87					
Toluene-d8 93 (88 - 110 )			(80 - 120)					
(88 - 110)	Toluene-d8		,					
,	, , , , , , , , , , , , , , , , , , , ,				•			
	Bromofluorobenzene		96					

(86 - 115)



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

#### MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

TEST

: VOLATILE ORGANICS EPA METHOD 8260

PINNACLE I.D.

: 107067

SPIKED SAMPLE

: 072501

DATE ANALYZED

: 07/25/01

CLIENT

: ENVIROTECH, INC.

UNITS

: ug/L (PPB)

PROJECT# PROJECT NAME : 98059

: UNIVERSAL COMP.

COMPOUND	SAMPLE CONC.	SPIKE ADDED	MS RESULT	MSD RESULT	MS %REC	MSD %REC	RPD	QC LIMITS RPD	QC LIMITS %RECOVERY
1.1-DICHLOROETHENE	<1.0	50.0	37.4	37.9	<b>7</b> 5	76	1	14	61-145
BENZENE	<1.0	50.0	49.8	49.3	100	99	1	11	76-127
TRICHLOROETHENE	<1.0	50.0	48.2	48.4	96	97	0	· 14	71-120
TOLUENE	<1.0	50.0	48.5	49.0	97	98	1	13	76-125
CHLOROBENZENE	<1.0	50.0	51.2	50.0	102	100	2	13	75-130

## CHAIN OF CUSTODY RECORD

Client / Project Name UN DV evs Ac Com	pressi	on.	Project Location	ford		ANALYSIS / PARAMETERS									
Sampler: HARLAN M.	Brow	ر ا	Client No.	<b>9</b> 59		No. of Containers	Total Makals	8260					Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	San Ma	nple trix	Conte	Make	82							
Waste Water Took	7.13.01	14:50	20384	Wall	2	4	V	/				W.E(o	w cha	w Ba	
	<u> </u>				· 						 				
			· · · · · · · · · · · · · · · · · · ·										•		-
			·.	-											_
															-
										-					
Relinquished by: (Signatu	Bro	<u></u>	>		245	eceived by:	ن	P.C	Perse				Date 2.13.0/	Tim	l
Relinquished by: (Signatu	ire)					eceived by:	(Signati	1te)							
Relinquished by: (Signatu	ire)				Re	eceived by:	(Signate	ure)							
				ENVIR	POTI	ECH	IN	C.				Sample	Receipt	1	
			Ì	FRESENS.	NEW SERVICE	ia. Kristi	g Zestak						Y	N	N/A
				Farming	ton, Nev			1			-	eceived Intact			
					(505) 63	32-0615					Coo	l - Ice/Blue lo	e L		



### TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	Waste Water Tank	Date Reported:	07-20-01
Laboratory Number:	20384	Date Sampled:	07-13-01
Chain of Custody:	9343	Date Received:	07-13-01
Sample Matrix:	Water	Date Analyzed:	07-19-01
Preservative:	Cool	Date Digested:	07-18-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.002	5.0
Barium	0.209	0.002	100
Cadmium	ND	0.002	. 1.0
Chromium	ND	0.002	5.0
Lead	0.040	0.002	5.0
Mercury	ND	0.002	0.2
Selenium	ND	0.002	1.0
Silver	ND	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Aztec Yard In-Flow Chamber.

Analyst

deview Misters M Westers



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-19-TM QA/QC	Date Reported:	07-20-01
Laboratory Number:	20384	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	07-19-01
Condition:	N/A	Date Digested:	07-18-01

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detectio Limit	on Sample	Duplicate	%, Diff.	Acceptance Range
Arsenic	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.002	0.209	0.210	0.5%	0% - 30%
Cadmium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.002	0.04	0.04	2.5%	0% - 30%
Mercury	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.002	ND	ND	0.0%	0% - 30%

: Spike: ::Gonc∉(mg/L)	Spike Addedi	r≀ → ⇒Sampl ⊶ → Sampl	e Spiked Sample		Acceptance Range
Arsenic	0.500	ND	0.499	99.8%	80% - 120%
Barium	0.500	0.209	0.707	99.7%	80% - 120%
Cadmium	0.500	ND	0.498	99.6%	80% - 120%
Chromium	0.500	ND	0.499	99.8%	80% - 120%
Lead	0.500	0.040	0.538	99.6%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.498	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 20384.

Analyst

Prioting Watters

## CHA N OF CLS ODY RECORD

Client / Project Name UN iv avy Ac Cam	pressi	on	Project Location	Yord	,		ANALYSIS / PARAMETERS					<del></del>					
Sampler: HARLAN M.	Brow	ر ک	Client No.	<b>6</b> 5 9	•		No. of Containers	Total	60			•		1	Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	100	Sample Matrix		Contr	704g	85								
Wasta Water Took	7.13.01	14:50	20384	(L	alai		4	~	/		-			W.F(o	2 CH(#	THE BY	<b>2</b>
							-										
				,													
																	,
Relinquished by: (Signatu	re)			Date	Time	Receiv	ed by:	(Signatu	ure)						Date	Ti	me
Relinquished by: (Signatu	Bro	<u> </u>	>	7.1301	1745	1 al		(Signatu	P.(	Peple	ىرر			7	13.01	.در	45
Relinquished by: (Signatu	re)	<del></del>				Receiv	ed by:	(Signatu	ure)								
				ENV	IRO	TEC	H	In	C.					Sample	Receipt	Τ	
				STAFFE BY	5796 U.S ington, N	S. High	ıway	64					Re	ceived Intact	Y	N	N/A
				, ann		632-0		, 0140					Cool	l - Ice/Blue Ic	e L		

Dietica I - (505) 393-6161 P. O. Bax 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P' vdc III - (505) 334-6178 Rio Brazos Road ~ -c, NM 87410

District IV - (505) 827-7131

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Seget Santa Fr. New Mexico 87 505 (505) 827-7131 G 2001

Env. JN: 98059

Form C-138

Originated 8/8/95

Submit Original Plus I Copy to appropriate District Office

REQUEST FOR APPROVALUS ACCEPT SOLID WASTE							
1. RCRA Exempt: Non-Exempt: 1	4. Generator Compression						
Verbal Approval Received: Yes No No	4. Generator Compression  5. Originating Site						
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essurotech						
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State HEW Hupico						
7. Location of Material (Street Address or ULSTR)	11 25 Hwy 516 AZTER, DU 97410						
9. Circle One:							
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptants; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to						
All transporters must certify the wastes delivered are only those consigned	d for transport.						
BRIEF DESCRIPTION OF MATERIAL:							
Spills & Leaks - controlled S&L @ compressor units in y TCLP ATTACHED. (Several TCLP's hours beam at this yard),	and for overhaul.						
Estimated Volume cy Known Volume (to be entered by the open	Allfi 1 6 2001  Environmental Bureau  eratoPar Generation Physion cy						
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 5.13.01  EPHONE NO. 505-632-0615						
APPROVED BY: TITLE: CTC/	DATE: 8/3/01						

## Discrict I - (505) 393-6161 P. O. Box 1980 Holista, NM 88241-1980 Discrict II - (505) 748-1283 811 S. First Artesia, NM 88210

7 Rio Brazos Road

District IV - (505) 827-7131

\_\_c, NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

Form C-138 Originated 8/8/95

JN: **98059** 

Cubmit Original

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827 631 127 Submit Original Plus 1 Copy to appropriate District Office

DECLIEST FOR ARREOVAL TO POSE OF TO PAGE OF THE WAST

HEGOEST TON ALTHOUGH TO THE TOTAL TO THE TOTAL TO THE TOTAL THE TO	OOLD WASTE
1. RCRA Exempt: Non-Exempt: Non-Exempt:	4.7 Generator
Verbal Approval Received: Yes No No No Received:	5. Originating Site
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essuratech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Musico
7. Location of Material (Street Address or ULSTR)	1125 Hwy 516 AZTER, DU 87410
9. Circle One:	7.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceded and accept one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:  Spills & Leaks - controval  St. @ compressor units in y  TCCP ATTACHED.  (Several TCLP's have been  et this yand),  Estimated Volume — cy Known Volume (to be entered by the open	run on sincilor med'es
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TEL	Manager DATE: \$.13.01  EPHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: Demy found TITLE: GOO TO	09/5/ DATE: 8/13/01
APPROVED BY: TITLE:	DATE:



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE TOPO RIO BHAZOS ROAD AZTEC, NEW MEXICO B7410 (SBS) 334-6178 Fpx (3DS)334-6178

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  UNIVERSAL COMPRESSION, INC.  3440 MORNINGSTAR Drive  FARMINGTON, N.M. 87401	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Aztec, N.M. 87410 Artach list of originating aires as appropriate	lard spills and Leaks)
4. Source and Description of Waste	•
YArd spills And Leak	S
1/ 1 5	•
1. Kevin D. Rom	representative for:
Universal Compression	Inc. do hereby certify that,
according to the Resource Conservation and Recover	Y. Act. (BCRA) and Environmental Protection Agency's July.
1988, regulatory determination, the above described	Waste is: (Check appropriate classification)
	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	tion is attached (check appropriate items):Other (description):
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): / (Lown )	Komme
Title: Environmental Ma	nager
Date: 8/10/0/	



## SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: **Universal Compression** Project #: Sample ID: Compressor Lube Lab ID#: G526

Soil

Cool

Date Reported: Date Sampled:

12-03-99 12-01-99 Date Received: 12-01-99 Date Analyzed: 12-03-99

805901

7582

**Parameter** 

Sample Matrix:

Preservative:

Condition:

Result

Cool and Intact

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 8.29

Chain of Custody:

**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:

U.S Hwy 550.

Field PHC; Spills & Leaks.

/ Mistin m Walles



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

Client:	Universal Compression	. Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

	,	Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0023	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0138	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

	<del></del>	
QA/QC Acceptance Criteria	Parameter	Percent Recovery
divide Acceptance officia	raianictor	1 Crocite Recovery

Trifluorotoluene 98% Bromofluorobenzene 99%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

U.S. Hwy. 550. Field PHC; Spills & Leaks.

Deur L. Gieren

Mistini M Waeters

## FOUROTECH LABS

## EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

U. S. Hwy. 550. Field PHC; Spills & Leaks.

Allen h. afletten

Review



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

Client:	Universal Compression	Project #:	80590 <b>1</b>
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

OA/OC Assentance Cuitaria	D	David David David	
QA/QC Acceptance Criteria	Parameter	Percent Recovery	
the rate is the principle	· a.a.,,oto,	, 0, 00, 1, 1, 1, 00, 1, 0, 1	

### 2-fluorobiphenyl

97%

References:

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

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

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

Note:

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

Comments:

U. S. Hwy. 550. Field PHC; Spills & Leaks.

Meur L. Gleuen

Mistini M Walles



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Laboratory Number:	G526	Date Sampled:	12-01 <b>-</b> 99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Analyzed:	12-08-99
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.050	0.001	5.0
Barium	1.05	0.001	21
Cadmium	0.053	0.001	0.11
Chromium	0.025	0.001	0.60
Lead	0.073	0.001	0.75
Mercury	0.005	0.001	0.025
Selenium	0.029	0.001	5.7
Silver	0.098	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

U. S. Hwy. 550. Field PHC; Spills & Leaks.

Deer R. Ofecen

Mistering Walters
Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-08-99
Laboratory Number:	12-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample G525 - G526.

Deur L. Opleven

Review Walter



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-08-99
Laboratory Number:	12-03-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample G525 - G526.

Dew L. Oferen

Aristen in Walter



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

Client: QA/QC Project #: N/A Sample ID: Matrix Duplicate Date Reported: 12-08-99 Laboratory Number: G525 Date Sampled: N/A Date Received: Sample Matrix: **TCLP Extract** N/A Analysis Requested: **TCLP** Date Analyzed: 12-07-99 Condition: N/A Date Extracted: 12-03-99

		Duplicate		
	Sample	Sample	Detection	
į	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0026	0.0026	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0050	0.0050	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample G525 - G526.

Review

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

Client:

QA/QC

Project #:

N/A

Sample ID:

Matrix Spike

Date Reported:

12-08-99

Laboratory Number:

G525

Date Sampled:

N/A

Sample Matrix:

**TCLP Extract** 

Date Received:

N/A

Analysis Requested:

TCLP

Date Analyzed:
Date Extracted:

12-07-99 N/A

	00	· ··	w	
~				 _

N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0026	0.050	0.0521	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0050	0.050	0.0548	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample G525 - G526.

Analyst

Davious

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## EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample G525 - G526.

Analyst Queen

Mister of Water



### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Laboratory Number:	12-03-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample G525 - G526.

Applica ho Cyllus

Mistering Walter Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample G525 - G526.

Analyst

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## ENVIROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-07-99
	·	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

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

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

Note:

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

Comments:

QA/QC for sample G525 - G526.

Deur L. Gieven

Review Misteri M Waller



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

Client: QA/QC Project #: N/A Sample ID: Method Blank Date Reported: 12-07-99 Laboratory Number: 12-03-TBN-MB Date Sampled: N/A Sample Matrix: TCLP Extract Date Received: N/A Preservative: Cool Date Extracted: 12-03-99 Condition: Cool and Intact Date Analyzed: 12-07-99 Analysis Requested: **TCLP** 

Det. Regulatory Concentration Limit Limit **Parameter** (mg/L)(mg/L) (mg/L)**Pyridine** ND 0.020 5.0 Hexachloroethane ND 0.020 3.0 Nitrobenzene ND 2.0 0.020 Hexachlorobutadiene ND 0.020 0.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

0.020

0.020

101%

0.13

0.13

References:

2.4-Dinitrotoluene

HexachloroBenzene

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

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

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

Note:

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

Comments:

QA/QC for sample G525 - G526.

ND

ND

Analyst L. Queen

Mistini My Waeles



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	12-03-99
Condition:	N/A	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
		-

#### 8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for sample G525 - G526.

Misters M Wallers



QA/QC

Client:

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

N/A

,0110111.		G, 1 G,		1 10,000 //.				
Sample ID:		12-08-TCM QA/QC Date Reported:			12-08-99			
Laboratory Number:		G525	25 Date Sampled:			N/A		
Sample Matrix:		TCLP Extr	act	Date Rece	eived:		N/A	
Analysis Requested:		TCLP Met	als	Date Anal	yzed:		12-08-99	
Condition:		N/A		Date Extra	Date Extracted:		N/A	
Blank & Duplicate	Instrument	Method		n Sample	Duplicate	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Acceptance	
.     Conc. (mg/L) Arsenic	Blank ND	Blank ND		0.013	0.013	0.0%	Range 0% - 30%	
Barium	ND	ND	0.001	0.399	0.396	0.8%	0% - 30%	
					0.000	4 00/	00/ 200/	
Cadmium	ND	ND	0.001	0.064	0.063	1.6%	0% <i>-</i> 30%	
Cadmium Chromium	ND ND	ND ND	0.001 0.001	0.064 0.064	0.063 0.064	1.6% 0.0%	0% - 30% 0% - 30%	
Chromium	ND	ND	0.001	0.064	0.064	0.0%	0% - 30%	
Chromium Lead	ND ND	ND ND	0.001 0.001	0.064 0.029	0.064 0.029	0.0% 0.0%	0% - 30% 0% - 30%	

Project #:

Spike Conc. (mg/L)	Spike Added	Sampl	e Spiked Sample	Percent Recovery	i Acceptance
Arsenic	0.500	0.013	0.512	99.8%	80% - 120%
Barium	0.500	0.399	0.897	99.8%	80% - 120%
Cadmium	0.500	0.064	0.563	99.8%	80% - 120%
Chromium	0.500	0.064	0.563	99.8%	80% - 120%
Lead	0.500	0.029	0.528	99.8%	80% - 120%
Mercury	0.050	0.007	0.056	98.2%	80% - 120%
Selenium	0.500	0.058	0.557	99.8%	80% - 120%
Silver	0.500	0.038	0.539	100.2%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples G525 - G526.

Analyst

Mistani My Walla

NIN 07404 . THE FOR . COO - OCHE - EAU FOR - GOO - 1065

## CHAIN OF CUSTODY RECORD

Sample

Matrix

: 1

7582

Client / Project Name

Sampler:

Universal

**Project Location** 

U.S HWY 550

Client No.

HARLIN M. Brown

Sample No./ Sample Sample Time Identification Date Compressor L

12.1.99 14:00

98059-01 Lab Number

 $\supset$ 

**ANALYSIS / PARAMETERS** 

Remarks

Field PULC; Spolls

Helinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date Received by: (Signature) Time

12.1.9

:5

eceived by: (Signatu

Received by: (Signature)

5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615

Date

Time

14! S

Sample Receipt

N N/A

Received Intact

Cool - Ice/Blue Ice

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

APPROVED BY:

c, NM 87410 مدر

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

92187

DATE:\_\_

Env. JN:

rict IV - (505) 827-7131	Env. JN: TA(B)
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: S・に・ol	4. Generator Rosoweces
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Sau Juan
2. Management Facility Destination Envirotech Soil Remedia.	6. Transporter Edulo track
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Plansics
. Location of Material (Street Address or ULSTR)	99 RA 6500 Kirthans, Duc 87417
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis
All transporters must certify the wastes delivered are only those consigned	I for transport.
Continuation of Pigging Wants Norms Seram ATT MeHOD  Estimated Volume	AUG 2001 PECEIVED ONLOON DIV DIST. 3
Waste Management FacilityAuthonzed Agent  YPE OR PRINT NAME:  Harlan M. Brown  TELI	anager DATE: <u> </u>
(This space for State Use)	
APPROVED BY: Jeny tem TITLE: Geolog	DATE: 8/15/0/

TITLE:



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AXTEO DISTRICT OFFICE 1606 RIO SRAZOS ROAD AZTEC, NEW MEXICO STAID (808) 334-8170 Fax (806)224-8170

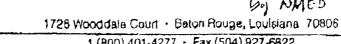
GARY B. JOHNSON GOVERNOR

JENNIFER A. SALISBUPY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Western Gas Resources	Envirotech Inc.
P.U. BOKTO 99 Rd 6500	Soil Remediation Remediation Facility
Kirtland, N. W. 87417	Landfarm #2, Hilltop, New Mexico
	5796 US Hwy 64. Farmington, NM 87401 Location of the Waste (Street address &/or ULSTR):
3. Originating Site Inamel: Pig Reciever San Juan River	DI +
Pig Recierer San Juan River	Flari
99 Rd. 6500 Kirthard N.M.	P7417
Attach list of originating sites as appropriate	,
4. Source and Description of Weste	
Pigging Sludge - Iron	Sulfiche
1 199119 314492 1141	
	•
$\Lambda$ 1 $\square$	
1, ARIYN Thorson (Print Name)	representative for:
(Print Name)	• • • • • • • • • • • • • • • • • • •
WESTERN GAS RESOURCES	JUC. do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recover	Y ACT (RCKA) and Environmental Protection Agency & July,
1988, regulatory determination, the above described	W25TB IS: (Check appropriate diasmineation)
1/ PYPARDY altitude words NON-EYEN	IPT oilfield waste which is non-hazardous by characteristic
P( 00740-111 - 1111-111	by product identification
Gridiyota Ot	by product izontinos.
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
and that he thing the over the terms of	
For NON-EXEMPT waste the following documents	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hezardous Waste Analysis	
Chain of Custody	
	(A1A MEE)
This waste is in compliance with Regulated Levals of I	Naturally Occurring Redioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpert 1403.C and D.	
Name (Original Signature):	
Name (Original Signature): Title: Field / MainTrugues Superur	·
Title: FIELD / MAINTENANCE SUPERU	50K
Date: 8/10/01	

by NMED was fr



1 (800) 401-4277 - Fax (504) 927-6822

ARS Tracking Number:

BERVICES, INC.

ARS-97-0924

P.O. Number:

215618

Clent I.D.:

GO2354

ID

ARS Sample I.D.:

ARS-97-3412

Date Sampled;

N/A

Date Received:

10/10/97

Time Sampled:

N/A

Time Received

0941

Type of Sample:

Solid

Date of Report

10/16/97

Analysis Description	Analysis Result	Analysis Free ±20	Detection Limit	Artalysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Ra-226	0.82	0.27	0.11	pCi/g	EPA 901.1M	10/13/97 1149	SB
Ra-228	0.03	0.02	0.01	pÇi/g	EPA 901.1M	10/13/97 1149	SB
Pb-210	15.33	0.71	0.17	μCi/g	EPA 901.1M	10/13/97 1149	SD
Total Activity	16.86	N/A	N/A	pCi/g	EPA 901.1M	10/13/97 1149	\$B

Quality Assurance Review

Post-It" brand fax transmittal memo 7671 From Ço. Dept. Fax#

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis in all. Reproduction of this report in less than full requires the written content of the citons.

				Critical level:	ひして のりのマラマ Aカ
6. 63 64 CHO CHO CHA CHA CHA CHA CHA CHA CHA CHA CHA CHA	(2) 14 (4) (4) (4 (4) (4) (4) (5) (2) 최 (6) 최 (5) (4 (4) (5) (5) (2) 배 (6) 배 배 (5) (6) (6) (6) (7)	Of the part of the Co. On Co.	FN 06 1 3 00009FNF3 5 0004500F0 0 NO000000	Safety E Safety E 15 TH CAS Pasac No	10 0 10 0 10 0 10 0
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The state of the s	10000000000000000000000000000000000000	$\begin{array}{c} 4 & \text{Figure} \\ \text{Constant} \end{array}$	انهما الناجي بالأرب (≎ وا) سم منظ عمر عمر ا	Arizon .CNF cate : try : try : try : try : try : try : try : : try	
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				0 Man / 2000 0 Man / 2000 0 Man / 2000 0 Man / 2000	0 0 •
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VMS Feak Search Report (continued) Page: 2 Sample ID: W03479 Acquisition date: 9/05/2000 9:11

Pk ſ	t Energy	Area	Bkgnd	ewim	Channel	Left	RW.	Cts/Sec %Err	Fit
44 45 46 47 48	2 1051.53 0 1069.43 0 1119.74 0 1133.61 0 1154.69	11 109 91 4816 115 569 100 1729	317 300 224 567 266 408 307 411 234	1.91 1.92 1.19 1.83 0.64 1.16 1.28 1.77	3964.95 3990.77 4058.65 4249.42 4302.03 4381.96 4580.81 4695.96 4754.11	3959 3959 4052 4234 4370 4572 4682 4747	44 44 14 24 29 28 19	0.0 95.30 0.0 14.32 0.0 31.80 0.3 1.92 0.0 30.41 0.0 8.98 0.0 37.68 0.1 3.68 0.0 31.13	1.20
50 M 51 M 53 M 53 m 54 S5	1232.84 1280.37 3 1376.96 3 1384.50 4 1400.82 4 1407.26 0 1460.04 0 1508.48	473 1392 232 332 691 510 534	341 303 271 258 265 266 420	1.80 2.04 2.04 1.91 1.92 1.63 2.03	4858.58 5224.87 5253.45 5015.34 5339.77 5539.91 5723.60	4844 5211 5206 5306 5506 5507 5707	31 54 54 49 49 20 20	0.0 10.73 0.1 2.95 0.0 8.76 0.0 6.99 0.0 4.39 0.0 8.71 0.0 10.11 0.0 26.65	0.75
M 57 1 59 50 60 60 60 60 60 60 60 60 60 60 60 60 60		61 140 231 16 267 931 4045 625 437 296	120 150 138 50 81 80 40	(.51	5335.34 5853.42 6003.77 6063.59 6300.23 6559.44 6691.68 6972.56 7006.40 7103.91 7650.17 8035.87	5825 5825 5825 6057 6289 6545 6667 6964 7642 3024	41 41 29 7 29 33 55 7 41 7 7	0.0 13.64 0.0 18.13 0.0 169.19 0.0 11.03 0.1 4.56 0.3 1.74 0.0 15.16 0.0 4.24	0.3

M = First peak in a multiplet region or fitted singlet to other peak in a multiplet region

Errors quoted at 1.000 signa

## TROSES LOENTIFICATION REPORT

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Muclide Library Used: C:/GENIEZK/CAMFILES/STDLIS.NUB

1.03885E-001 1.03885E-001	4.720071E+000 4.72475E-001	79.01 79.01	*18:09 p I	71610 71610	88-7
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4 T.S. \* \$ 2.1 09.6 ICO+28196111 100-E177788'6 01:62 1881001

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\* = Energy line Tound in the spectrum. 8 \* Energy line not used for Wolghted Mean Activity . Energy Tolerance : 0.500 FWHM Muclide confidence index threshold = 0.30 Errors quoted at 1.000 sigma 40

\* \* \* \* \* CECORRECTED REPORT 化化物化物物物物物物物物 医生物

Wt mean Activity Uncertainty	1.038849E-001 3.806900E-001	.918150E-00 .912115E-00	7509121 7509121 75233E
<pre>Wt mean Activity (pci/g )</pre>	4.724754£-001 4.200710£+000	.241061E-00 .460217E-00	1.054000 596000 7.060000 7.76008 7.41008 7.41008 6.16008
Nuclide Id Confidence	\$ 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	づいー り	
Nuclide Name	85-7 K-40 CD-109	COLONIO.	ংলাল্ড হোক্য µ০০

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Activity is part of an undetermined solution rejected by the interference analysis contains energy lines not used in Weighted Mean nuclide nuclide nuclide (4 pg 35)

Errors quoted at 1.000 sigma

## Callarance collected wech, tobole

Peak Locate Performed on: 9/05/00 1:12:01 PM

Peak Locate From Channel: 5 Feak Locate To Channel: 8192

Peak	Energy	Peak Size in	Feak CPS
	(keV)		Uncertainty
	(,,,,		
=1	22.92	4.9051E-002	12.04
74 (A (A) (B)	32.72	-7.63%9E-003	-95.74
÷	46.80	1.7465E-002	41.98
ű.	112.48	2.0486E-003	263.21
$1\overline{1}$	209.15	1.7824E-002	37.06
	258.99	4.97228-002	16.63
	274.64	2.8507E-002	21.43
M 17	133.30	1.31468-002	19.75
M 20	033.84	1.5400E-002	13.35
	454.82	1.8148£-002	29.00
	480.46	1.4725E-002	12.37
	487.16	1.9057E-002	10.44
	510.94	4.2234E-002	14.91
		6.0069E-003	45.48
	533.64	5.6944E-003	67.44
	579.89	4.4745E-002	8.83
.5U	665.19	1.3611E-002	25.25
3 m 3 ± -0 m	702.91	9.28245-003	35.66
	719.55	3.8889E-000	89.76
	752.76	3.300261994 3.04085.000	16.33
	938.399 25.35	2.2604E-002 1.222E-002	31.62
	J60.99	7.9380E-004	, 95.30
	1044.72		14.32
	1051.50	7.5509E-003	31.60
	1069.43	6.3194K-003 7.9031E-003	30.41
45	1133.61	6.9676E-003	97.68
4.7	1207.10 1252.82	7.0000E-003	31.13
49	1252.84	/.3/59 <b>6</b> 793/ / 0/675 663	26.65
M 57	1537.94	4.24058-003	10.64
	1547.71	9,7245E-000 1.6042E-002	18.13
50	1582.36	1.00478-002	169.19
	1598.13	1.11112-003	15.16
M 04	1837.83	4.77721-003	51.11
	1572.47	2.98612-003	36.86
6.7	2016.52	2.5926E-003	)6.80

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma

C 0500

# # # # # #

### 1~ + +: j. #s. 40 45 17 +: 04 + + 0 # +: به سنک (1) \* (1) \* 4 CC 4: ۴. þ. -14 <del>+</del>: [1] +· \*\*\* $\Box$ + 1-1 H ..... 化托托托托 $\supset \overline{r}$ 22 + \* \* \* + +

DETO! 500ml Marinelli 500ml marinelli C:\GENIEZK\CAMFILES\STDLIB.NLE Detector Name: Sample Geometry: Sample Title: Nuclide Library Used:

· **{**--

Activity (pCi/g )	4.2007E+000 -3.4751E+002	70 FB 00 00 7 00 00 00 00 00 00 00 00 00 00 0	70-1877 1878-0-1	.4555E-06. .5916E+06	3.0502E-00	F. 8018404 8.86725400	1.30518-00	6.1200E-00		4. KO - O B- O C A - A - O - O C - O	0.000		0.001.01.00.00	8489E-00	6.42753-33	4.97568-00	001 1001 1001 1001 1001 1001 1001 1001								) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	0.000000000000000000000000000000000000	3 (	シンチ組のannin - H - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	15740V07. 15740V07. 15740V07.	こうもひゃく への・ヨウン・ロンタン・ロンタン		3.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	4 회 : 호 : 호 :			
Nuclide MDA (pci/g )	3.21E-001 9.27E-002	7,35K+002	8,448-002									d 5 3	80 18 22 1	1.54E+000	(C) (C) (C) (C) (C) (C) (C) (C) (C) (C)		000 til 0 til			•	04 (5) (4) (6) (6) (7) (7)				•				( ( (	400 Lano . 4						
Line MDA (pCi/g )	8.2136E-001		.9547E-00	.4350E-00 .3012E+00	.9673E-00	.1089E-00	.1555E-00	.7800E-00	0045750.		00455775,		00-80220	00+1065	9171E-00	\$984E-00	.0957E+00	.5152E+00	.5805E+00	00-826%1.	.7302E+00	00-36822	2513E-00	00-36967.		00-3-00.	00-30000.		. 61265+05 	00+91510.	00+1/100.	00+6779/.	00 thoses.	0.020240	0587E+C	0-313 ps
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Energy (keV)	4 00.00 4 00.00 4 00.00	(a (a :	000	01 W	१ ह्ना ! १ देवां !	W o	0 √0 0 √10 • • •	<u>ে</u>	<u>3</u>	ुं	r Toga erra	-	ric Divi	• 1 1500 1500	(C)		908.	30 30	(D)		un un	1	ტ წე	्र ु	ু কু কুম	(1	• መ መ	r W)	ි. ලිබ	i UU	00	٠ ٠٠٠ ۳۱	: (2) (2)	14.0 1771	25	24). (3).
Nuclide Name	K-40 SC-4©		09 - 05 5	01 500 150 500	 -						urvijo et k ed j lad j	m	i. U	) (W) 2 (M) 3 (M) 4 (M)	(d) (d)	;	00 . 1 . 00	95	011-N0		함(6) 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1									(6) (7) (7) (7) (7)						

	Nuclide Name	Enerav (keV)	Yield (%)	. Line MDA (pCi/g )	Nuclide MDA (pCi/g )	Activity (pCi/g )
	CS-136	818.50 1048.07	99.70 79.60	1.5509E-001 2.1381E-001	1.558-001	-3.2521E-002 1.3359E-001
		1235.34	19.70	1.5032E+000		1.373754001
	CS-137	661.65	85.12	8.7684E-002	8.77E-002	3.8304E-001
	0 03-138	138.10	1.49	1.0000E+026	1.00E+026	1.00005+026
	Ģ	227.76	1.51	1.0000E+026		1.0000E+026 1.0000E+026
	6 6 6 8	408.98	4.55	1.0000E+026		1.0000E+026
	<u>.</u>	462.79	30.70	1.0000E+026 1.0000E+026		1.0000E+026
	0	546.94	10.80 5.11	1.0000E+025		1.0000E+026
	(d	871.80 1009.78	29.80	1.0000E+026		1.0000E+026
	ig ia	1147.22	1.24	1.0000E+026		1.0000E+026
	(3 (4 (4 (8	1343.59	1.14	1.0000E+026		1.0000E+016
	ig Ig	1435.86	76.30	1.0000E+026		1.00005+025
	LA-138	788.74	33.60	2.4632E-001	1.32E-001	8.40/3E-00l
		1435.80	66.40	1.3243E-001		8.98975-003
	CE-109	165.83	80.09	8.7315E-002	8.735-002	-1.70075-002
	GD-153	69.67	2.54	7.0435E+000	2.48E-001	-9.4486E+000
		83.37	0.21	5.8333E+001		-2.74056+003 1.91696-001
		97.43	30.20	2.4764E-001 3.2094E-001		-1.1696E-001
	tion of A.S.	103.18 279.19	21.40 77.30	1.03202-001	1.035-001	7.72235-001
	HG-203 BI-214	609.31	46.30	1.9040E-001	1.905-001	2.0669E+001
+	D1 714	768.35±	5.04	1.5693E+000		2.13738+001
		806.175	1123	5.2355E+000		1.9761E+991
		934.06*	3.121	2.3728世+900		2.08508+001
		1120.29*	15.10	7.4715E-001		2.25093-001
		1155.19*	1.69	5.0543E+000		2.4406 <b>5</b> +001 2.24025+001
		1200.11.*	5.94	1.6257E+000		2.58638+001
		1280.96*	1.47	6.42%0£+000 1.3245E+000		2.8458E+001
		1377.67* 1385.31*	0.78	6.6320 <b>5</b> +000		2.50628+001
	•	1401.50*	1.39	3.6733E+000		2.0349E+001
		1407.98*	2.43	2.0924E+000		2.38235+001
		1509.19*	2.19	5.2173 <b>E</b> +000		2.19865+001
		1661.281	1.15	5.40995+000		2.24128+001
		1729.60*	0.05	2.51648÷000		3.0005 <b>5</b> +001 2.5690 <b>2</b> +001
		1764.40*	15.80	4.9732E-001		3.040684001
		1847.44*	2.12	1.6636%+000 2.4649%+000		2.6869B+001
	and the second	2118.54	1.21 6.33	1.3040E+000	3.01E-001	1.8141E+091
	PB-214	74.81* 77.11*	10.70	7.20265-001	J.018 004	1.8921E+001
		37.20°	3.70	1.49255+000	•	1.88578+001
		37.20 39.80*	1.03	4.85675+000		2.56245+001
		241.98	7.49	4.8843E-001		2.3908 <b>b</b> F001
		295.21*	19.20	4.6444E-001		2.33965+907
		351.92*	37.20	3.01056-001		2.3639 <b>E</b> +001
		785.91*	1.10	5.0444E+000		2.26115+06.
÷	A0-228	338.02*	111.40	4.12718-001	2.26E-001	4.61238-001
		911.60*	27.70	2.26203-001		2.40108-00: 5.00408-00:
		969.11	14.44	5.2052E-001		<b>约,</b> 3次年经基本企作。

Michide MER Report

9/05/00 1:12:03 PM

Page 3

Nuclide Name	Rhengy (keV)	Vield (%)	Nine MDA (pCi/a /	Nuclide MDA (pCL/g )	Activity (pdl/4 )
PA-234 PA-234M TH-234	94.67 98.44 111.00 131.20 152.70 226.87 589.26 733.00 883.24 946.00 949.00 1001.03 63.29 92.80	15.50 25.10 35.10 7.20 7.20 6.50 10.40 12.00 7.80 12.60 2.60	5.1405E-001 2.797%E-001 2.797%E-001 2.7900E-001 6.8500E-001 9.779%E-001 3.026E-001 5.729%E-001 1.0074E+000 1.3586E+001 7.0562E+000 5.3204E+000	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	-2.4241E-001 -4.5523E-001 -4.5523E-001 -1.2435E-001 -3.7495E-001 -4.8969E-001 -6.3676E-001 -4.4356E-001 -1.8752E-001 -3.7564E-001 -4.0761E+000 -4.0701E+000 -8.2080E-001
	112.81	0.26	3.6334E+001		4.13495+001

<sup>&</sup>gt; = MDA value not calculated

<sup>8 -</sup> Half-Life too short to be able to perform the decay correction

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

District IV - (505) 827-7131

APPROVED BY:

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: \_ 96036

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt: 1. 14:35	4. Generator Phillips Potrolana
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site 57.29-5 ** 64
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Horico
7. Location of Material (Street Address or ULSTR)	SWNW Sec ZI, TZ9N R 5W
9. <u>Circle One</u> :	Rio Arriba Comby.
<ul> <li>A. All requests for approval to accept ollfield exempt wastes will be accept acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Condons 200 Contoninated Soil	AUG 2001 RECEIVED ONLOON. DIV. DIST. S
Estimated Volume 27 cy Known Volume (to be entered by the op	erator at the end of the haul) ————————————————————————————————————
	Manager DATE: 8:13.61  EPHONE NO. 505-632-0615
APPROVED BY: Demy Jeen TITLE: 6-60 (a	00/5/ DATE: 8//3/01

FAX NO. 1 '63698

P. 02

H-DE 320-3429

FAX# 632 1865

## **CERTIFICATE OF WASTE STATUS**

M. C. and M. M. and Address.	O Developed All Comments
1. Generator Name and Address:	2. Destination Name:
Phillips PETAdeum C-	Variantack Cail Depolination Facility
/ " /	Envirotech Soil Remediation Facility
{	Landfarm #2 Hilltop, New Mexico 632-0615
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR);
	Escaped of the waste to age acousts the occupy,
29-5 64m	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	4 0 /
27 yands or	Contaminass Soil
1. ROBERT WIRTANES	representative for:
Phillips Perpoleum	
	y Act (RCRA) and Environmental Protection Agency's July,
	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents on MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature):  Title:  Date:    A   A     Foliation   Compared	

District I - (505) 393-6161
P. D. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Professional Control of the Cont

District IV - (505) 827-7131

c, NM 87410ء۔۔۔

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>92057-044</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator EPFS.
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Chaco Plant.
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marsico
7. Location of Material (Street Address or ULSTR)	SWY SEC 16, TZGN, RIZW
9. Circle One:	SJC. NM.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Amine Solution reclaimon.  Never ped Shipped	
Estimated Volume 22 cy Known Volume (to be entered by the op	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management Facility Authorized Agent  TITLE: Landfarm N	Manager DATE: Saria (3.6)
Harlan M. Brown	EPHONE NO
(This space for State Use)	
APPROVED BY: Denny Tour TITLE: GOOLO	DATE: 8/13/0/

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
El Deser Field C	Fredrick C. T. D. 11 of D. 11 of
El Paso Field Services Co.	Envirotech Soil Remediation Facility  Landfarm #2
614 Reilly Avenue Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Chaco Plant Amine System	SW/4, Section 16, T26N, R12W, San Juan County, New Mexico
	·
Attach list of originating sites as appropriate	
Source and Description of Waste	
Amino colution reglaimer (distillation unit) colida	
Amine solution reclaimer (distillation unit) solids	
ı, David Bays	representative for:
(Print Name)	
El Dana Field Caminan	
El Paso Field Services	CO. do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
1988 regulatory determination, the above describe	
	•
	NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification
X EXEMPT Oilfield waste	characteristic analysis of 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 docur	nentation is attached (check appropriate items):
MSDS Information	Other (description)
RCRA Hazardous Waste Analys	
Chain of Custody	
$\cdot$	
Name (Original Signature):	Baye
, <del>-</del>	•
Title: Principal E	nvironmental Scientist
Doto: August 7.5	

- (505) 393-6161 P. (). Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178 Rio Brazos Road c, NM 87410 مدرم

District IV - (505) 827-7131

### New Mexico Energy Numerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopv to appropriate District Office

Env. JN: 95026

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator BJS-vices
Verbal Approval Received: Yes 🔲 No 俎	5. Originating Site WASH BAY Soli
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Hawico
7. Location of Material (Street Address or ULSTR)	3250. Southside River Rd Farmington, Du 87401
9. <u>Circle One</u> :	3-4-6-101
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Cantinuation of waterial:  AUG 2001  AUG 0 7 2001  Environmental Bureau Oil Conservation Division	AUG 2007
Estimated Volume ————————————————————————————————————	rator at the end of the haul) ————— cy
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELI	DATE: <u>8.2.0</u> EPHONE NO. 505-632-0615
APPROVED BY: TITLE: See / TITLE: See / O	9.13T DATE: 8/3/0/

District I - (505) 393-6161

2. Box 1980

iobbs, NM 88241-1980

Histrict II - (505) 748-1283

811 S. First

Artesia, NM 88210

1 trict III - (505) 334-6178

Rio Brazos Road

C. C, NM 87410

District IV - (505) 827-7131

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>95026</u>

4.4.2、1.1.4、24.3、4.1.4、1.1.4、1.1.4、1.1.4、1.1.4、1.1.4、1.4、	
REQUEST FOR APPROVAL TO ACCE	EPT SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator BJ Sorvices
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site WASH BAY Soli
2. Management Facility Destination Envirotech Soil Remedi Facility Landfarm #2	a.   _
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State How Howico
7. Location of Material (Street Address or ULSTR)	3250. Southside River RE Forming ton Du 87401
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be PROVE the material is not-hazardous and the Generator's certific listing or testing will be approved.</li> </ul>	accompanied by a certification of waste from the accompanied by necessary chemical analysis to cation of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consig	gned for transport.
Estimated Volume 40 cy Known Volume (to be entered by the	AUG 2001  AUG 20
SIGNATURE: Waste Management Facility Authorized Agent	
TYPE OR PRINT NAME: Harlan M. Brown	TELEPHONE NO
(This space for State Use)	
APPROVED BY: 1000/	DATE: <u>8/03/01</u>
APPROVED BY: TITLE:	DATE:



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO B7418 (505) 334-6178 FXX (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIPER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:  BJ Ectvices 3250 Southside River Road	2. Destination Name: Environment Soil Remediation Facility
3050 Southside Kiver Koad	Landarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
BJ Services 3250 South side River Road	SAME- WARL bay solids facility
FARMINGTON, New Mexico 87401	
Attach list of originating sites as approprieta	
4. Source and Description of Waste	
CONTINUATION of WASh	bay solids
Lac Raugh	
Les Baugh BJ Services (Print Name)	representative for:
BJ. Services	do hereby certify that,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July waste is: (Check appropriate classification)
EXEMPT oilfield waste X NON-EXEM analysis of	APT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documents  MSDS Information	✓ Other (description):
<ul> <li>★ RCRA Hazardous Waste Analysis</li> <li>★ Chain of Custody</li> </ul>	Re-Affirmation Statement
This waste is in compliance with Regulated Levels of I to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	£
Title: Facilities Supervision	
5053275766 // /D) AUG.01'2001 16:04 RE	CEIVED FROM: .5056321865 ##003_000
	AUG.01.2001 16:54 5053275766 BJS FARMIN



## REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

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

Date of TCLP

Printed Name

Title / Agency

Facilities S

Address

3250 Southside Kiver

Signature

Date

8/1/01

5053275766

AUG. 01'2001 16:04 RECEIVED FROM:

5056321865

#4041-003

BIS FARMINGTON

AUG.01'2001 16:54 5053275766



#### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

**B J Services** 

Project #:

95026-001

Sample ID:

Wash Bay Solids

Date Reported:

02-07-01

Lab ID#:

19171

Date Sampled:

02-02-01

Sample Matrix:

Sludge

Date Received:

Preservative:

Cool

02-02-01 02-05-01

Condition:

Cool and Intact

Date Analyzed: Chain of Custody:

8498

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 10.19

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

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

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

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23.

(i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

3250 Southside River Road.



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

Client:	B J Services	Project #:	95026-001
Sample ID:	Wash Bay Solids	Date Reported:	02-06-01
Laboratory Number:	19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-06-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/ <b>L)</b>
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	ŃD	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
•	Trifluorotoluene	98%	

References:

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

Bromofluorobenzene

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

3250 Southside River Road.

Analyst Cefree

Review M Walls

99%



### EPA METHOD 8040 PHENOLS

Client:	B J Services	Project #:	95026-001
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-09-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

3250 Southside River Road.

Analyst Cecur

Mister m Walles
Review



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

Client:	B J Services	Project #:	95026-001
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-09-01
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 ND	0.020	2.0
Hexachlorobutadiene	NĎ	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.

OAIOC Assentance Cuitoria	Doromotor	Donoont Donoston
QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

100%

References:

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

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

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

Note:

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

Comments:

3250 Southside River Road.

Den L. Office.
Ahalyst

Prister in Walter



## EPA METHOD 1311 TOXIGITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

•			
Client:	B J Services	Project #:	95026-001
Sample ID:	Wash Bay Solids	Date Reported:	02-07-01
Laboratory Number:	19171	Date Sampled:	02-02-01
Chain of Custody:	8498	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Analyzed:	02-06-01
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Parameter			
Arsenic	0.054	0.001	5.0
Barium	0.627	0.001	100
Cadmium	0.021	0.001	1.0
Chromium	0.049	0.001	5.0
Lead	0.084	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.012	0.001	1.0
Silver	0.004	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3250 Southside River Road.

Analyst

Misteri m Walten Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-06-01
Laboratory Number:	02-06-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluono	100%

Trifluorotoluene Bromofluorobenzene 100% 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 Organics, 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 19170 - 19171.

Alen P. Oglenn Analyst

Christin of Water
Beview



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-06-01
Laboratory Number:	02-05-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	02-05-01
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample 19170 - 19171.

Analyst C. Office

Christini m Walter Review



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

Client:	. QA/QC	Project #.	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

	,	Duplicate	,	
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/ <b>L</b> )	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND:	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	NĎ	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	NĎ	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ŇD	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 19170 - 19171.

Alle L. Glen

Mustin my Warters



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

Client: Sample ID: QA/QC Matrix Spike Project #:
Date Reported:

N/A 02-06-01

Laboratory Number: Sample Matrix:

19170 TCLP Extract Date Sampled: N/A
Date Received: N/A

Analysis Requested:

Condition:

TCLP N/A Date Analyzed:
Date Extracted:

02-06-01

N/A

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.049	0.0001	98%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.050	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1.4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19170 - 19171.

Analyst

Ahristini my Walter



### EPA METHOD 8040 PHENOLS

## Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-09-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Analyst Coluce

Mistri m Walter
Review



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Date Analyzed:	02-09-01
,		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.

Analyst P. Que

Christing Westers
Review



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client: QA/QC Project #: N/A Sample ID: Matrix Duplicate Date Reported: 02-09-01 Laboratory Number: 19170 Date Sampled: N/A Sample Matrix: **TCLP Extract** Date Received: N/A Preservative: Cool Date Extracted: 02-05-01 Condition: Cool & Intact Date Analyzed: 02-09-01 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:	Darameter	Maximum Difference
Acceptance Unterla.	Parameter	wiaximum Dinerence
	 <del></del>	

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 19170 - 19171.

Analyst Charles

/ mister my Walter Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-09-01
		Analysis Requested:	TOLE

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

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

Note:

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

Comments:

QA/QC for samples 19170 - 19171.



# 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:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool and Intact	Date Analyzed:	02-09-01
		Analysis Requested	ŤCI P

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-fluorobinhenyl	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 samples 19170 - 19171.

Ahalyst L Cylincia

Chrit m Dallen
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-05-01
Condition:	N/A	Date Analyzed:	02-09-01
	•	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
		<u> </u>

#### 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 19170 - 19171.

Allen L. Office

Review Misting Maller



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

Client:	QA/QC	Project #:	N/A
Sample ID:	02-06-TCM QA/QC	Date Reported:	02-07-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate	Instrument	Method Blank	Detection	CONTROL OF STREET OF STREET, S	Duplicate	1100004241000557746	Acceptance
Conc. (mg/L) Arsenic	ND	ND	. Limit 0.001	0.052	0.051	Diff 1.9%	Range
Barium	ND	ND	0.001	0.546	0.542	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.045	0.044	2.2%	0% - 30%
Chromium	ND	ND	0.001	0.067	0.065	3.0%	0% - 30%
Lead	ND	ND	0.001	0.079	0.08	1.3%	0% - 30%
Mercury	ND	ND	0.001	NĎ	ND	0.0%	0% - 30%
Selenium	ND .	ND	0.001	0.016	0.016	0.0%	0% - 30%
Silver	ND	ND	0:001	0.007	0.007	0.0%	0% - 30%

Spike .: Conc. (mg/L):	Spike Added	Sample	e Spiked Sample		Acceptance Range
Arsenic	0.500	0.052	0.550	99.6%	80% - 120%
Barium	0.500	0.546	1.04	99.4%	80% - 120%
Cadmium	0.500	0.045	0.543	99.6%	80% - 120%
Chromium	0.500	0.067	0.565	99.6%	80% - 120%
Lead	0.500	0.079	0.577	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.016	0.515	99.8%	80% - 120%
Silver	0.500	0.007	0.506	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19170 - 19171.

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Analyst (R

# CHAIN OF CUSTODY RECORD

08498

Client / Project Name			Project Location				ANALYGIG / PARAMETERS								
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				rarmi	ngton, Ne (505) 6	w Mexico 32-0615	0 8/4U	Į			Cool - I	ce/Blue Ice			

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

District IV - (505) 827-7131

APPROVED BY

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>92102</u>

HEQUEST FUR APPROVAL TO ACCEPT	SOLID WAS IE
1. RCRA Exempt: Non-Exempt: 7.3001	4. Generator Robast C. Barres
Verbal Approval Received: Yes 🔀 No 🔲 12:00	5. Originating Site కటలు ఈ కె
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Barcess
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Nous Morico
7. Location of Material (Street Address or ULSTR)	SE4 SEL7, T30N, RIZW
9. Circle One:	SON Juan Comby, NO.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	5 WO TANK BATTORY
4 drugs	E STELLING CONTRACTOR OF THE STELLING CONTRACTOR
Estimated Volume Cy Known Volume (to be entered by the op	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Manager DATE: 7.30.01  EPHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: Ferri "in TITLE: Geold	0/5/ DATE: 8/03/0/



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIG BRAŻOS ROAD AZTEC, NEW MEXICO 87410 (205) 334-617# Pax (205)234-8170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

ROBERT L. BAYLESS PO BOX 168	Envirotech Soil Remediation Facility
	Landarm #2
FARMINGTON, NM 87499	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
SWD #3	
SE/4 SECTION (, TSON, RIE 4	·
SWD & 3 SE/4, SECTION 7, TOOM, RIZELY SAN JURIN COUNTY, NEW MEXICO ATTACK HELD OF PRINCIPAL ALERS AS ADDRODULATE	·
Metabli list of Chighidana pitor de appropri	
4. Source and Description of Waste	
FOUR BARRELS OF OIL SOAKED SOIL	FROM AROUND TANKS
	,*
ROBERT L. BAYLESS (Print Name)	representative for:
(Print Name)	de harely coult also
LOBERT LI DAPLESS	do hereby certify that,
according to the Resource Conservation and Recove	rv Act (RCBA) and Environmental Protection Agency's July
according to the Resource Conservation and Recove	
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	waste is: (Check appropriate classification)
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEMPT	waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEMPT	waste is: (Check appropriate classification)
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEM  analysis or	waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEMPT	waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEM  analysis or	waste is: (Check appropriate classification)  IPT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documents  MSDS Information	waste is: (Check appropriate classification)  IPT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documents  MSDS Information  RCRA Hazardous Waste Analysis	waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  Ition is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documents  MSDS Information	waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  Ition is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documents  MSDS Information  RCRA Hazardous Waste Analysis	waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  Ition is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	waste is: (Check appropriate classification)  //PT cliffeld waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documents  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of its	waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  Ition is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilified waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documents  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of its	waste is: (Check appropriate classification)  //PT cliffeld waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilifield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of Ito 20 NMAC 3.1 subpart 1403.C and D.	waste is: (Check appropriate classification)  //PT cliffeld waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilified waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documents  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of its	waste is: (Check appropriate classification)  //PT cliffeld waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of It to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):	waste is: (Check appropriate classification)  //PT cliffeld waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of It to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):	waste is: (Check appropriate classification)  //PT cliffeld waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described  EXEMPT cilifield waste  NON-EXEM  analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT waste the following documenta  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  This waste is in compliance with Regulated Levels of Ito 20 NMAC 3.1 subpart 1403.C and D.	waste is: (Check appropriate classification)  //PT cliffeld waste which is non-hazardous by characteristic by product identification

crict I - (505) 393-6161 O. Bux 1980 Hobbs: NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 D' trict III - (505) 334-6178 Rio Brazos Road c, NM 87410. District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE				
1. RCRA Exempt: Non-Exempt: Frank 7/25/01	4. Generator El Paso Field Service				
Verbal Approval Received: Yes 🔼 No 🔲	5. Originating Site (Bbline Drip				
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ICQ				
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State (M)				
7. Location of Material (Street Address or ULSTR)	SE14, Secal, Tagn, Risw, SJ, 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	d for transport.				
BRIEF DESCRIPTION OF MATERIAL:					
Soil contaminated with hydr	oarbaniestiquids.				
	AUG 2001  PECEIVED  O'LOON. DIV  DIST. 3				
Estimated Volume 2 drm cy Known Volume (to be entered by the op-	erator at the end of the haul) ————————————————————————————————————				
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: TEL	DATE: 7/25/01 EPHONE NO. 505-632-0615				
APPROVED BY:  APPROVED BY:  TITLE:  TITLE:  TITLE:  TITLE:	DATE: 8/13/0/ DATE: 8-13-1				

# **CERTIFICATE OF WASTE STATUS**

1. Gene	erator Name and Address:	2. Destination Name:
	El Paso Field Services Co.	Envirotech Soil Remediation Facility
	614 Reilly Avenue	Landfarm #2
	Farmington, NM 87401	Hilltop, New Mexico
3. Origin	nating Site (name):	Location of Waste(Street address &/or ULSTR):
6B6 Line	Drip	SE/4, Section 21, T29N, R13W, San Juan Co., NM
,		
	list of originating sites as appropriate ce and Description of Waste	
4. 30ar	ce and Description of Waste	
2 drums	of soil contaminated with hydrocarbon liqu	ids
	David Dave	
١,	David Bays (Print Name)	representative for:
	,	
	El Paso Field Services	
	gulatory determination, the above describe	very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
		NON-EXEMPT oilfield waste which is non-hazardous by
_X E		characteristic analysis or by product identification
and that	nothing has been added to the exempt or	non-hazardous waste defined above.
For <b>NON</b>	N-EXEMPT waste only, the following docur	mentation is attached (check appropriate items):
	MSDS Information	Other (description)
	RCRA Hazardous Waste Analys Chain of Custody	sis
		0 -
Name	(Original Signature):	il Bays
Title:	Principal E	nvironmental Scientist
Date:	July 23, 20	001
Date.	July 20, 20	· · · · · · · · · · · · · · · · · · ·

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

Rio Brazos Road

APPROVED BY:

c, NM 87410 مدرم

New Mexico Energy Minerals and Natural Resources partment Oil Conservation Division

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

Form C-13 Originated 8/8/9

> Submit Origin: Plus I Čop to appropriat District Offic

Env. JN: 96052

REQUEST FOR APPROVAL TO ACCEPT S  1. RCRA Exempt: Non-Exempt: No No No No No No No No No No No No No	4. Generator Phillips Revoluments  5. Originating Site ST31-2 #234  6. Transporter TBA  8. State New Maxico  mpanied by a certification of waste from the mpanied by necessary chemical analysis to
Verbal Approval Received:  2. Management Facility Destination  Envirotech Soil Remedia. Facility Landfarm #2  3. Address of Facility Operator  Farmington, NM 87401  7. Location of Material (Street Address or ULSTR)  9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accordenator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accordenated.	5. Originating Site SJ31-2 #234 6. Transporter TBA  8. State Daw Maxico  mpanied by a certification of waste from the mpanied by necessary chemical analysis to
2. Management Facility Destination Envirotech Soil Remedia.  3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401  7. Location of Material (Street Address or ULSTR)  9. Circle One:  A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accordened.	5. Originating Site SJ31-2 #234 6. Transporter TBA  8. State Daw Maxico  mpanied by a certification of waste from the mpanied by necessary chemical analysis to
<ol> <li>Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401</li> <li>Location of Material (Street Address or ULSTR)</li> <li>Circle One:         <ul> <li>All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accordenerator.</li> </ul> </li> </ol>	8. State Dew Mexico  mpanied by a certification of waste from the  mpanied by necessary chemical analysis to
<ol> <li>Address of Facility Operator Farmington, NM 87401</li> <li>Location of Material (Street Address or ULSTR)</li> <li>Circle One:         <ul> <li>All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accordened.</li> </ul> </li> </ol>	mpanied by a certification of waste from the
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accordeneator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordeneated.</li> </ul>	mpanied by necessary chemical analysis to
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordened.</li> </ul>	mpanied by necessary chemical analysis to
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned	
Estimated Volume Company Compa	JUL 2001  RECEIVED OIL CON. DIV DIST. 3  Pater at the end of the haul) cy  Inager DATE: 7.70.01  EPHONE NO. 505-632-0615

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

APPROVED BY:

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 96052

DATE:

	REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1.	RCRA Exempt: Non-Exempt:	4. Generator Phillips Polvo beam
	Verbal Approval Received: Yes 🔲 No 🔯	5. Originating Site Sブゴーム ギマュリ
2.	Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
3.	Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7.	Location of Material (Street Address or ULSTR)	·
9.	Circle One:	
	<ul> <li>All requests for approval to accept oilfield exempt wastes will be acceded Generator; one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRI	EF DESCRIPTION OF MATERIAL:	
<b>D</b> ,		
	Diesel Continuente d'Scil	19202122
	MSDS ACTACHOOL	JUL 2001
		E RECEVED E
		OIL CON DRY
		COSTELLE
Estin	nated Volume ————————————————————————————————————	erator at the end of the haul) ————————————————————————————————————
SIGI	NATURE: Handfarm M Waste Management FacilityAuthorized Agent	
TYP	E OR PRINT NAME: Harlan M. Brown TELI	EPHONE NO
(Th	nis space for State Use)	•
AP	PROVED BY: Demy Leur TITLE: Geolog	9/3/ DATE: 7/23/0/

TITLE:

TO

Atten: Haklan BROWN (R) SAM AMEN: BOB WIRLANEN 399-3462 MOM: BOB WIRLANEN

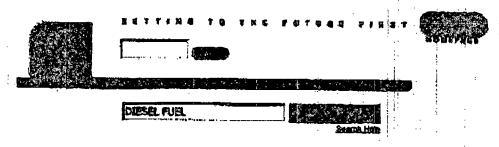
CERTIFICATE OF WASTE STATUS -AX 632-1865 1. Generator Name and Address: 2. Destination Name: Phillips PETR-leum, C. 3. Originating Site (name): Envirotech Soil Remediation Facility Landfarm #2 632-0615 Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR): Attach list of originating sites as appropriate MSDS Attached - #2 Dissel Fuel 4. Source and Description of Waste 12 BBL OF Dissel From a leaking Tank NEW PRODUCT IR TANEN representative for: (Print Name) Poleum 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: (Chock appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic **EXEMPT** oilfield waste analysis or by product identification and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above. For NON-EXEMPT waste only the following documentation is attached (check appropriate items): **MSDS** Information Other (description): RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature):

#### 15053343104 DIRL OIL AZTEC NM

567 PB1 -JUL 19 'B1

# Lubricants - Material and Safety Data Sheets

Page 1 of 7



Click bere for the POF yemion

#### NO. 2 DIESEL FUEL

#### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

No. 2 Diesel Fuel

MSDS Code: GASC0220

Revised: 12-0ct-2000

CAS Number: 68476-34-6

Tradepase: Diesel Ruel No. 2, Low Sulfur Diesel Fuel No. 2, High Sulfur

MANUFACTURER/DISTRIBUTOR

Conoco Inc.

PO Bex 2197

Houston, TX 17252

PROME NUMBERS

Product Information : 1-281-299-5550

Transport Emergency : CHEMITREC 1-800-424-9300 or

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

: 1-900-942-5119 or 1-281-493-2747 Medical Energency

WES SITE

: WHY CONOCO.COM

#### 2. COMPOSITION/INTOSHATION ON INGREDIENTS

Diesel Foel, No. 2 68476-34-6 Patroleum distillate standard applies. (See Section 8.)

3. MAZARDS IDENTIFICATION

#### --- EXERGENCY OVERVIEW ---

#### APPEARANCE / ODOR

Red or Undyed (Clear or Straw-Colored) Liquid / Arcmatic Odor

#### OSHA REGULATORY STATUS

This material is hazardous as defined under CSKA regulations. Combustible.

See below for health effects.

#### SEATS RETING

monith: 1; Flammability: 2: Reactivity: 0

#### Potential Regith Effects

Primary Routes of Entry: Skin, inhelation
The product may deums irritation to the eyes, nose, threat, luigs,

.../find.ssp?q1=DIESEL+FUEL&wordus=?&psr-DIESEL%7EFUEL%TE&number=51GASC07/19401

15853343104 DIRL OIL AZTEC NI

ARC HAZ JUL 19 '81 14:47

# Labricants - Material and Safety Data Sheets

Page 2 of 7

and skin after prolonged or repeated exposure. Extreme overexposure or aspiration into the lungs may cause lung damage or death. Overexposure may cause weathers, headache, assett. confusion, blurred vision, drowsiness, and other nervous system effects; greater overexposure may cause distincts, slurred speech, flushed face, unconsolousness, and conveletums, native aparent, flushed face, unconsolousness, and conveletums.

Combustion Product - Carbon Monoxide:

Carbon monoxide decreases the ability of the blood to carry oxygen.

Inhelation may cause headeche, nauses, rapid respirations, romiting, distinces, confusion, impaired judgement, personality changes, memory impairment, sestmess, shortness of breath, unconsciousness, convolsions and death if not treated. It day cause cheet pains in persons with heart disease. Carbon moninde poisoning our cause pollor (whiteness) of cyancels (bluerdes) of the skin and extrasitios. Eigh examplures to carbon monoxide may cause heart irregularities.
Carbon monoxide may adversally affect the unborn babies of pregnant HODAS. Cardinogenicity Information None of the components present in this material at concentrations

equal to or greater than 0.10 are Listed by DARC, NYP, DERA or ACGIN es a carcinopen.

#### 4. PIRST ALD MEASURES

First Aid IMPALATION If inhalod, remove to fresh air. If not breathing, give; extificial respiration. If breathing is difficult, give express. Call a physician. SKIN CONTACT Wash okin thoroughly with somp and water. If irritation develops and permists, consult a physician. In case of contact, immediately flush eyes with planty of water for at least 15 minutes. Call a physician. INSESTION Immediately pive 2 glasses If amellowed, do not induce vomiting. of water. Hever give enything by month to an unconscious paraca. Call a physician. Activated charcos) mixture may be administered. To prepare scrivated charcost mixture, append 50 grams activated charcost in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

#### F S. FIRE FIGHTING MEASURES

Flammable Properties : 130 F (54 C) Flash Point PHOC DOG SAN flasmable limits in Rir, t by Volume . 0.4 494 F (257 C) Auto: Galtion Autospateton
Vapor forme explosive mixture with sir. Vapors or queed pay
travel considerable distances to ignition source and flath back.
SETA Classification : Class II Combostible Signid.
NETA Rating : Nameth O: Flammability 2: Securivi: Flommability 2: Beactivity C. NPTA Rating Extinguishing Media Estar Spray, Fosh, Dry Chemical, CO2. Fire Fighting Instructions Use water to keep fire-exposed containers cool. If a leak of spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak.

..../find.mp?ql=DIESEL+FUEL&wordno=Q&par=DIESEL%7EFUEL%7E&marker=51GA\$C07/19/01

TO

SUBLICIONARY WITH MAN PETER INT

# Lutinosity - Material and Safety Data Sheets

keter thirt wil se may be from will and live contact of potential ignition. products of composition of contain 2015th William minus minus minus and other toxic naterials. To not enter andlosed or confined space without proper protective equipment including respiratory protection.

#### 6. ACCIDENTAL RELEASE MEASURES

Sefequence (Personnel)
NOTE: Review FIRE FIGHTIMS MEASURES and MADULING (PERSONNEL) NATE: Review TIME FIGHTING MEMBURES and HARDLING (RESPONDED)
SECTIONS DEFORE REPORTED WITH Clean-MP. Use appropriate
SERVING PROTECTIFF LODGERING WITHIN SIGNATURE.
Remove source of hear, sparks. Flore, impact, frieties and
Remove source of hear, sparks. Flore, impact, frieties and
Parks including interfal communities and power tooks.
If sourcement including interfal cleanup, it must be unplusive profit
and suitable for flammable liquid and report.
ROTE: Vapors released from the spill day orests at emplosive strouplers.

Initial Containment like spill. Prevent apparial from entering severe, weterwise, or

low areas.
Spill Clean Co
Sonk up with sandset. sand, cil dry or other absorbent material.

#### HANDLING DUD STORRGE

Hendling [Personnel]
Avoid breathing vapous or mist. Avoid contact with gyes, skin, or cirthing. Hash thoroughly after handling. Hash chithing sites use, special aspects)
Spould (Styrical Aspects)
Ground container when posting. Keep sway from heat, special end; thanes. Close container sites each one. Do not presentive; but, wold, braze, sudder, grind, or deall on mean full or court, container. Insty container retains residue (liquid and/or vapox) and may ampleds in hear of time.

Degrace Stone in a well ventilated place. Resp conteiner tightly closed. recommendations. Store away from hear, sparks and flames,

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Descrip with Edoquate fourilation. Heap container tightly olderd. Postponel Protective Equipment Respiratory Protection

Explanation Frontection and appropriate appropriate and positions of the superior and properties are proportied and appropriate and appropriate and appropriate appropriate appropriate appropriate appropriate appropriate appropriate appropriate appropriate appropriate appropriate appropriate appropriate appropriate and the conteminantial, the degree of potential appropriate and published respirator protection factors.

Thould be wern when the potential exists for prolonged or repeated skin dentact. NEE or neopreme recommended.

Safety places with side emiside. Chemical splace popular or foce shield for appaying the or if apparating the accur. Of the Projective Equipment

Coveralis with 1600 sleeved if splashing is probable.

applicable Exposure Limits

ISSUSPENDING DIAL OIL AZTEC HM

JEL 19 'BL 1014E

# Labricans - Material and Subtry Data Shorts

Petroleum distillate standard amplies.

: 500 pe, 2000 m/sJ, 8 dr. 1991

MALE

! None Established

PHISICAL AND CHINICAL PROPERTIES

Physical Date

Boiling foint

350-690 F (177-366 C) 1 mm Eg # 68 F (20 C)

Vapor Denalty

(0.1mxiA) [< 1 BIL

& Volatiles Solubility in Water

Prophibie Aronatio.

PORT.

∞lar Specific Gravaty Not on Decided street or street Colored) 0.84-0.98 0 60 F (16 5) )

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Keet, sparke, and flames.

Incorpatibility with Other Saturiels

Incorpatible on can resot with surony existers.

Description

Carpon conduids may be formed from incomplete completen.

Polymerisation will not occur.

11, TONICOLORICHA INFORMATION

Aniwel Data incl Data
Aminal studies have shown that prolonged or respected inhulation exposures to high concentrations of Some patroleum distillates have manused liver tunnes in Rice and kidney names and tunnes in mile rate. However, hidney offects were not onen in similar male rate. However, hidney offects were not come in similar mate. However, hidney offects were not come in similar studies involving famale rate, quines plas, dops, or mankeys: Present studies inclicate the kidney effects will only occur in male rate. Also, homen studies do not indicate this peculiar male rate. Also, homen studies do not indicate this peculiar sensitivity for kidney demangs and studies reported in 1982 shower that this perticular type at rat kidney damage is not associate in the exposed to high doses of chemicals is highly speculative and protechly not a good indicator for predicting a percential homen decrinogenic hazard.

Mouse skin peinting studies have shown that petralpum biddle distillates (Dolling range 100-700 F) bophtha, jet fuel, disselfuel, keyoscha, etc.) can doubt akin cancer when repeatedly applied and never weeked from the animal's skin. The relative significance of this to beam health is uncertain since the petralous distillates were not maked from the akin and resulting petralous distillates were not maked from the akin and resulting significance of this to beam hasten is undefine since the paternoom distributes mere not meshed from the skin and resulting skin effects (britistics, call dramps, stc.) may play a rode it the tumoriganic sesponso. A firm studies have shown that manning the stable size with stay and water have shown that manning the stable is said with stay and water have shown that manning the stable the carrier openin wifeet of some percolumn nile. Other laboratory studies indicate that middle distillator caused the skin tumors by promoting, rather than initiating, the formation or stay a stay is producted and in stay! skin tumors by premoting, rither than initiating, the formation of tumors, so the effect is probably done-teleted and low level exposure should not be marcinogenic.

Studies in sice and rate have shown that chronic exposure is hours/day, 7 days/week, 24 mouths; to prilitered disset emission produced tumors or the lumps and also lymphones. On the house of those studies, which recommends that while disset emission be

1000034NB4 UIR UIL HEIEL NT

more

# Labrants - Marial and Santy Data Shorts

regarded so a potential carcinogen. Acute toxicity data from studies supported by the American Petroleus Institute with a generic fi fuel oil sample:

Oral, 1050 (rate) Skin, 1050 (rabbits) 7-22 ml/kg : 3-4 : 3-4 Skin friktion (rebbits: index, 0-8): 3 Sys Teritation (rebbits: index, 0-110): 1 Skin Sensitization (guizen pige): 8 : Hormamultimics

#### 12. ECHIOGICAL DEFORMATION

Beorgetopical Information No specific equatic date evallable for this product.

#### DISPOSAL CONSIDERATIONS

Waste Disposal Transpar, storage, transportation, and disposal roat be in accordance with applicable Tederal, State/Provincial, and Local regulations. Do not flush to surface water or manifery sever By itself, the liquid is expected to be a MEA ignitable homoradous Magte. Container Disposal

impty drims should be completely drained, properly bunged, and properly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally made manager.

#### 14 TAMMSPORTATION INFORMATION

### Shipping Deformation

Proper Enipping these Hererd Class L.D. So. (UNIX) Facking Droup DOT Label(s) DOT Placeld : Dissel firel : Combustible liquid : MAI 993 : III : Combustible DCRG/1000 Proper Shipping deste Baserd Close ON/Ah Number : See Dil IN1232 Packing Group . III Flarmable liquid 2.6 Del.

#### 15. RESULATORY IMPORMATION

Pleand

U.S. Federal Requisitions
OGAL HAISAND DETERMINATION
This motorial is hereindure to Scandard, 29 CFR 1910-1200.
CERCLE/SUPERSUND us so defined by OSRA's Basard Communication

Not applicable, this material is covered by the CEREER potrations

: Clamable

SARDA TITLE IXI, 302/304
This material is not known to contain extremely besundous

STORESCHOOL SARA, FITTE III, 981/ 312 Rosts : You

. Yes Cheonic Fite : Tax Reactivity : No - T44 Pressure

\_findesp/q1=Di28B1+FUEL&wordno=2&psn=DIE9EL%7EFUEL%7E&nomber=5167A5C07/19/01

POSSOURCE DISC DIF MERCE (4.)

# Labricans - Material and Sufety Data Sheets

Page 6 of 7

### SAL TITE III, 313

This naterial is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of foris Chamicals and subject to release reporting requirements.

This paterial is in the TRCA immentory of Chamical Substances (40 CPR 710) and/or is otherwise in compliance with 190m.

This experial, when disparded or disposed of, is not be officially listed as a herardone waste in Federal requisitions, however, it meets criberia for being ignitable apporting to 0. 5. MTA definitions (40 CTR 181). This material could also become a herardous waste if it is mixed with m comme in contact with a linear bursedous waste. If it is a herardous waste, regulations and account of the order of the country of the order of the country of the order of the country of the order o at 10 CFR 252-256 and 259 may apply.

CLEAN WATER ACT Has warred at commains the following ingradient(s) which is the material commains if spilled into havigable maters and therefore reportable to the Matienal Response Center (1-880-124-8802).

ingradient guantity

: Petroleum Mydrocarbons. ; Film of absen upon or discoloration of any water surface.

State Asgulacions (V.S.) CALIFORNIA PROP 65"

This metarial to not known to contain any ingredient (a) subject to

PERMENIVABLE NORMER & COMMUNITY RIGHT TO ENGH ANY This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardone Substances hist.

Ingredient

s Diesel Fool Oil : Hazardous Substance.

Category Canadian Requistions

Adian Regulations CLASS B Division 3 - Combustible Liquid. CLASS D Division 2 Subdivision 5 - Toxic Material. Chronic Fosic Effects.

#### 16. OTHER IMPORTATION

Additional Information: Boxb.

The date in this reteriod Serety Date Sheet related only to the specific detected designated herein and does not relate to use in combination with any other securial or in any process.

Combination with my other management of it appendiction with my other management of its common inc.

Address Po Bus 2197

Telephone 1-221-293-1386

# Endicates updated mention.

Ecd of MBDS

Questions can be discuss to our MSDS relativisticate.

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

District IV - (505) 827-7131

# New Mexico Energy Anerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/9:

> Submit Origina Plus I Copto appropriate District Office

Env. JN: 92052

REQUEST FOR	APPROVAL TO	<b>ACCEPT</b>	SOLID WASTE
-------------	-------------	---------------	-------------

1. RCRA Exempt: Non-Exempt: A Generator Phillips Retvole				
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site ミブ. 32-8 #20			
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBM			
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico			
7. Location of Material (Street Address or ULSTR)	8. State New Marico SWNE, Sec 24, T3IN, R8W. Swar Juan Country			
9. Circle One:	0			
<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>				
BRIEF DESCRIPTION OF MATERIAL:				
Hydraulic oil contaminated soil (now oil). MSDS attabled				
MSDS attached				
RECEIVED  Alif 0 6 2001  Environmental Bureau Oil Conservation Division  Estimated Volume  Cy Known Volume (to be entered by the open	JUL 2001 RECEIVED OIL CON. DIV DIST. 3			
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) ————————————————————————————————————			
SIGNATURE: Harding Brown TITLE: Landfarm M. Waste Management Facility Authorized Agent	anager DATE: 7.18.01			
Harlan M. Brown	EPHONE NO			
(This space for State Use)				
APPROVED BY: DET TITLE: Geologist DATE: 7/23/0/				
APPROVED BY: Title: Buses	Mif DATE: X/7/01			

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

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 92052

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Phillips Ratvola
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site SJ. 32-8 #20
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBM
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Massico
7. Location of Material (Street Address or ULSTR)	8. State New Marico SWNE, Sec 24, T3IN, R8W. Saw Juan County
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Hydraulic sil contominated 5  MSDS attabled	JUL 2001  PECEIVED  ONLOON DIV  DIST 3
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm Ma Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: 7.18.6( EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy Toust TITLE: Geo/a	
APPROVED BY: TITLE:	DATE:

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum	
1 11/0/2 / E/19/0/2-11	Envirotech Soil Remediation Facility
Ì	Landfarm #2 Hilltop, New Mexico 632-0615
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	SW NE Seczy, T3IN, R8W
#2.6	
32-8 #206 -12 ya	3.3.
Attach list of originating sites as appropriate	
4. Source and Description of Waste  Soil mixed w/ hydrauli	· · · · · · · · · · · · · · · · · · ·
· Soit wiken my 14 th	11 1 11 Lace (NEW 012)
. no Il de ox oil was spil	1 At the asore 18432
+ 45 gm/1043	1 + Acquess ( not as 4 d)
Spill Not Reported To	Gov) m
+ 25 grillors or oil was spill - spill not reported To	
1. RA WIRTHARD	representative for:
	7 Opi asantauvo 101.
Phillips Officers C.	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Waste is: (Check appropriate classification)
EXEMPT oilfield waste NON-EXEM	MPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
	have been defined above.
and that nothing has been added to the exempt or no	n-exempt non-nazardous waste defined above.
For NON-EXEMPT waste only the following docum	nentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
Da 11- A	
Name (Original Signature):	
So che chif	
Title: Sp Ehs Spelst	
Title: Sp Ehs Spelst  Date: 7-17-0/	

June 30, 1993



# Material Safety Data Sheet

TO

# MAGNUS® "A" OIL (ALL GRADES)

PROME NUMBERS

PHILLIPS 66 COMPANY A Division of Phillips Petroleum Company Bartlesville, Oklahoma 74094

(918) 561-8118 (800) 756-0050 Energency Technical Service: For Additional MSD5s: (918) 661-5974

# A. Product Identification

Synonyma: Industrial oil, ISO VG 32, 48, 68, 109, and Magnus "A" KV Multivia Hydraulic Dil SAE

5W-20

Chemical Name: Mixture Chemical Family: Hydrocarbon Chamical Formula: Mixture

GAS Rag. No.: Mixture Product No.: 1012838(81320): 1012839(81330): 1012843(81340): 1012846(81350): 1012850(81360): 1012853(81370)

1012856(81390)

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (ISCA) Inventory of Chemicals; hence, it way be subject to applicable TSCA provisions and restrictions.

## **B.** Components

Ingredients

CAS Number

ahro

ACCIL

This product does not neet the definition of a hazardous material given in 29 CFR Part 1910.1200(OSHA). Information on this form is furnished am a customer service.

## C. Personal Protection Information

Use adequate ventilation to control exposure below recommended levels. Ventilation:

Not generally required. For concentrations exceeding the recommended exposure level, use NICSN/MSMA approved Respiratory Protection:

air purifying respirator.

Use safety glasses with side whields. For aplash protection was chemical goggles and face shield. Eye Protection:

Skin Protection: Use protective sarments to prevent thin content.

MOTE: Personal protection information shows in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist. It is suggested that the expert assistance of an industrial hygianist or other qualified professional be sought.

## D. Handling and Storage Precautions

Avoid contact with eyes, skin or clothing. Avoid breathing vapors, mist-fume or dust. Use with adequate ventilation. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. If pressure injected under the skin, can cause sangrams if not treated.

Store in closed containers. Store in well-ventilated area,

### E. Reactivity Data

Stability: Stable
Conditions to Avoid: Not Applicable
Incompatibility (Materials to Avoid): Oxygen and strong exidizing agents.

Hazardous Polymerization: Will Not Occur Conditions to Avoid: Not Applicable Rezardous Decomposition Products: Carbon oxides and various

hydrocarbons formed when burned.

## F. Health Hazard Data

### Recommended Exposure Limits:

OSHA PEL and ACGIH TLV for oil mists is 5 mg/m3.

### Acute Effects of Overexposure:

Eye: Mild irritation.

Practically non-toxic by skin absorption. Mild irritation with

prolonged or reposted contact.

Inhalation: Home expected.

Ingestion: Prosticelly non-toxic.

#### Subchronic and Chronic Effects of Overexposure:

No known applicable information.

#### Other Health Effects:

Pressurized injection of product under the skin can lead to seriously inflammed tissue. If left untrested injury can be gangrenous.

Prolonged and repeated exposure to oil mist poses a risk of pulsonary disease such as lung inflammation. This condition usually causes no symptoms.

Continuous skin contact with used motor oils has caused skin cancer in laboratory animals. Avoid prolonged skin contact with used motor oil.

### Health Hazard Categories:

An	imal	Human			:' !.	Animal	Rusen
Known Carcinogen Suspect Carcinogen Mutagen Taratogen Allergic Sensitizer Mighly Toxic			Toxic Corrosive Insitent Target Organ Specify -	No kn	oun appartion	licakla	

#### First Aid and Emergency Procedures:

Eye: Flush eyes with running water. If irritation or adverse symptoms develop, meak medical mitention.

Skin: Wash skin with soap and water. If irritation or adverse symptoms develop, seek medical attention.

Inhelation: Remove from exposure. If illness or adverse symptoms develop, seek medical attention.

Ingestion: If illness or adverse symptoms develop, seek medical attention.

Note to Physician: For injection injuries, immediate medical treatment is required. Physicians may call the energency number (918) 661-8118.

## G. Physical Data

Appearance: Colorless to dark liquid
Odor: Mild
Boiling Point: > 500F (> 316C)
Vapor Pressure: < 1 nm Hg 3 58F (29C)
Vapor Density (Air = 1): > 1
Solubility in Mater: Negligible
Specific Gravity (H20 = 1): 0.86 - 0.88 3 60F (16C)
Percent Volatile by Volume: Negligible
Evaporation Rate (
Viscosity: 30 - 107 c5t 3 104F (40C)

## H. Fire and Explosion Data

Flammable Limits (% by Volume in Air):

> 390F (> 198C)(COC, ASTH 1992)

LEL - Not Entablished UEL - Not Entablished

Fire Extinguishing Media:

Dry chemical, form of carbon

dioxide (COZ)

Special Fire Fighting Procedures:

Evecuate area of all unnecessary personnel. Shut off source, if Use NICSE MSNA approved selfpossible, contained breathing apparatus and other protective equipment and/or garments described in Section C if conditions

warrant. Mnter for or spray may be used to bool exposed containers and equipment.

Fire and Explosion Maxards:

Carbon exides and various hydrocarbons formed when burned.

## 1. Spill, Leak and Disposal Procedures

Precentions Required if Material is Released or Spilleds

Wear protective equipment and/or germents described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Reep out of water sources and sewers. Absorb in dry, inert material. Transfer to disposal druns.

Waste Diaposal (Insure Conformity with all Applicable Dispusal Regulations): Incinerate or otherwise manage at a permitted waste management facility.

## J. DOT Transportation

Shipping Name: Rezerd Claus: Not Regulated

Not Repulated

ID Number: Not Regulated

Not Regulated Packing Group:

Marking: Not Regulated Not Regulated Label

Not Regulated Planard.

Hazardous Substance/RQ: Not Regulated

Not Regulated Shipping Description:

Not Regulated Packaging References:

# K. RCRA Classification - Unadulterated Product as a Waste

Prior to disposal, consult your Environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

## L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

M. $H$	lazard	Classi	ficat	ion
--------	--------	--------	-------	-----

	This product meets the Occupational Safe CFR Section 1910.1200	he following busard definity ety and Health Hezard Commun )>:	ion(# nicat	l as defined by ion Standard (29
=	Combustible Liquid Compressed Gas Flammable Gas Flammable Liquid Flammable Solid	Fluenable Aerosol Explosive Health Hazard (Section Organic Peroxide	• F)	Oxidizer Pyrophoric Unstable Water Rescrive
X.	Based on information	presently available, this p	TOOUR	t toes not meet

## N. Additional Comments

#### **SARA 313**

As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Resuthorization Act of 1986 and 40 CFR Part 372.

Pulling Princisems Company (substruct to Philips Provious Company or Pacing makeous as securous, albumes and substruction do information on principles of the principles of th

District I - (505) 393-6161 P. D. Box 1980 Habbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

Rio Brazos Road

District IV - (505) 827-7131

APPROVED BY: 🗸

~~c, NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 98059-601

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE			
1. RCRA Exempt: ☐ Non-Exempt: ⊠	Universal			
Verbal Approval Received: Yes No No	5. Originating Site wan Bay			
Envirotech Soil Remedia	6. Transporter Environted			
5706 US Highway 64				
3. Address of Facility Operator Farmington, NM 87401	8. State Dew alabico 3440 Morningstar Facucington Du			
7. Location of Material (Street Address or ULSTR)	Faculty DK			
9. Circle One:	- -			
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordened provided the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	empanied by necessary chemical analysis to n of origin. No waste classified hazardous by			
All transporters must certify the wastes delivered are only those consigned for transport.				
BRIEF DESCRIPTION OF MATERIAL:  Wash Gay 50 (103 drummed)  RECEIVED  Alif 0 6 2001  Environmental Bureau Oil Conservation Division  Estimated Volume (to be entered by the open	JUL 2001  CIL CON DIV  DIST.  Prator at the end of the haul) ————————————————————————————————————			
SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	EPHONE NO. 505-632-0615			
(This space for State Use)				
APPROVED BY: Deny Fent TITLE: Geold	09 13 DATE: 7/18/01			

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

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

Santa Fe, New Mexico 87505 (505) 827-7131

Submit Original Plus I Copy to appropriate District Office

Form C-138

Originated 8/8/95

Env. JN: 98059-601

District IV - (505) 827-7131	Env. JN: <u>48059-601</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes No 🔀	5. Originating Site Local Bur
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Enviroted
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Dew Waster
7. Location of Material (Street Address or ULSTR)	8. State Dew Clastico 3440 Morningstar Facusington, DX
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Wash boy 50 (ids-drummed TCLD ATTACUED.	JUL 2001 RECEIVED MASS OIL CON DIV DIST. 3
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	anager DATE: 7.12.0( EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy Found TITLE: (9-00/05)	
APPROVED BY: TITLE:	DATE:

5053255027 50**53255027** 

T-553 P.02/02 F-159



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL COMBERVATION CIVISION ARTEC DISTRICT OFFICE 1985 RID BRAZOS ROAD ACTEC, NEW MEXICO \$7410 (505) 234-8178 FAX (505) 234-6710

CARY B. JOHNSON

Jenniyer A. Saliebuky Cabinet Secretary

# CERTIFICATE OF WASTE STATUS

1. Generator Nama and Address: .	2. Destination Name:
UNIVERSAL COMPRESSION, INC.	Environech Soil Remediation Facility
3440 MORNINGSTAR DRIVE	Landarm #2
FARMINGTON, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
UNIVERSAL COMPRESSION, INC.	Washbay)
3440 MORNINGSTAR DRIVE	•
FARMINGTON, NM 87401	•
orechine of prighted an easie published to sail does of	
4. Source and Description of Waste	
sludge from Washbay	
	•
Kevin D Komin	<b>P</b>
Universal Comprescion	representative for:
Minister Children Carne	In c. do hereby certify that,
according to the Resource Conservation and Recover	y Act. (RCHA) and Environmental Protection Agency's July
1988, regulatory determination, the above described	#8510 is: (Chebk appropriate classification)
EXEMPT oilfield waste X' NON-EXEM	PT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
•	
and shar nothing has been added to the exempt or not	i-Bizampt non-hazardous waste defined above.
- BIRBI FUTBIRT	Santa amenda da fa fa da a a a a a a a a a a a a a
For NON-EXEMPT waste the following documentar	· · · · · · · · · · · · · · · · · · ·
MSDS Information  RCRA Hazardous Waste Analysis	Other (description):
X Chain of Custody	•
Z Cittor at Castook	
This warn is in compliance with Regulated Levels of N	aturally Occurring Radiosothe Meterial (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature):	
Title: <u>Environmental</u> Mu	niger
7 10 -1	
Dare: 7-12-01	



## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

Universal Compression

98059-001

Sample ID:

New Wash Bay

96059-00

Lab ID#:

19830

Date Reported: 05-15-01

Sample Matrix:

Sludge

Date Sampled: 05-07-01

Preservative:

Sludge Cool Date Received: 05-07-01

Condition:

Cool and Intact

Date Analyzed: Chain of Custody:

Project #:

05-11-01 8646

Parameter

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 7.36

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

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

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

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

Comments:

3440 Morningstar.

(hunter my b) cete
Analyst

Review



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

<b>.</b>			·
Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-16-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	· TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-15-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

٠.	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.107	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0051	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

3440 Morningstar.

Analyst. Ceffee.

Misters of Walters



## EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-17-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-16-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

3440 Morningstar.

Analyst

<u> hristine m Wresters</u> Review



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

		•	
Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-16-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-16-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

3440 Morningstar.

Analyst C. Oglere

Christini m Walters
Review



## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

•			
Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-15-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Analyzed:	05-15-01
Preservative:	Cool	Date Extracted:	05-09-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Concentration	Det.	Regulatory Level
(mg/L)	(mg/L)	(mg/L)
0.006	0.001	5.0
0.346	0.001	100
0.003	0.001	1.0
ND	0.001	5.0
0.017	0.001	5.0
ND	0.001	0.2
0.002	0.001	1.0
ND	0.001	5.0
	0.006 0.346 0.003 ND 0.017 ND 0.002	Concentration (mg/L)         Limit (mg/L)           0.006         0.001           0.346         0.001           0.003         0.001           ND         0.001           0.017         0.001           ND         0.001           0.002         0.001

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:

3440 Morningstar.

Analyst Cepture

Misters my Walters



### QUALITY ASSURANCE / QUALITY CONTROL

### **DOCUMENTATION**



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #: Date Reported: Date Sampled:	N/A
Sample ID:	Laboratory Blank		05-16-01
Laboratory Number:	05-15-TCV		N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed: Analysis Requested:	05-15-01
Condition:	N/A		TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinul Chlorida	ND	0.0001	
Vinyl Chloride			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	NĎ	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
•	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst P. alex

Christini M Walters



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

·			
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-16-01
Laboratory Number:	05-09-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	· N/A	Date Analyzed:	05-15-01
Condition:	N/A	Date Extracted:	05-09-01
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
	(7.1.3 /	(***9, =)	(g/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND .	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery	
		Fluorobenzene	99%	
	e e	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 19828, 19830 and 19865.

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Mistari m Walters
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## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-16-01
Laboratory Number:	19828	Date Sampled:	· N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-15-01
Condition:	N/A	Date Extracted:	05-09-01

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0330	0.0330	0.0001	0.0%
Chloroform	ND	NĎ	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst C. afelica

Mistine my Walters
Review



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:

QA/QC

Project #:

N/A

Sample ID:

Matrix Spike

Date Reported:

05-16-01

Laboratory Number:

19828

Date Sampled:

N/A

Sample Matrix:

TCLP Extract

N/A

Analysis Requested:

TCLP

Date Analyzed:
Date Extracted:

Date Received:

05-15-01 N/A

Condition:

N/A

	• • •		Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range

Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0330	0.050	0.0820	0.0001	99%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.050	0.0001	99%	<b>39-150</b>
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

L. afree

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 19828, 19830 and 19865.

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Review

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### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	05-17-01
Laboratory Number:	05-16-TCA	Date Sampled:	N/A
Sample:Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-16 <b>-01</b>
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection Limit	Regulatory Limit	
Parameter	(mg/L)	(mg/L)	(mg/L)	
o-Cresol	ND	0.020	200	·
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND	0.020	2.0	-
2,4,5-Trichlorophenol	ND	0.020	400	٠
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 19828, 19830 and 19865.

Ala C. Cyleran

Misting Walters



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-17-01
Laboratory Number:	05-09-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-09 <b>-</b> 01
Condition:	Cool & Intact	Date Analyzed:	05-16-01
•		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-Trichiorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachiorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

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 19828, 19830 and 19865.

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## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-17-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	05-16-01
	·	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	ŃD	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 19828, 19830 and 19865.

Analyst Christing of Review



## 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:	05-16-01
Laboratory Number:	05-16-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	05-16-01
· .		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
•.	2-fluorobiphenyl	97%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst L. Q.L.

Christini m Woulders
Review



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-16-01
Laboratory Number:	05-09-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	. N/A
Preservative:	Cool	Date Extracted:	05-09-01
Condition:	Cool and Intact	Date Analyzed:	05-16-01
	•	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	NĎ	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

97%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst C. Cylins

Misting Malters



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client: QA/QC Project #: N/A Matrix Duplicate Sample ID: Date Reported: 05-16-01 Laboratory Number: 19828 Date Sampled: N/A **TCLP Extract** Sample Matrix: Date Received: N/A Preservative: N/A Date Extracted: N/A Condition: N/A Date Analyzed: 05-16-01 Analysis Requested: **TCLP** 

· · · · · · · · · · · · · · · · · · ·	Sample	Duplicate		Det.
	Result	Result	Percent	Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L <b>)</b>
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

#### 8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst C. Cyliner

Phristing Deneters



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	QA/QC	Proiect #:	N/A
Sample ID:	05-15-TCM QA/QC	Date Reported:	05-15-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	05-15-01
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate	Instrument	Method	Detection	Sample	e Duplicate		Acceptance
Conc. (mg/L)	Blank ND	Blank ND	Limit	0.009	0.009	Difference  0.0%	Range 0% - 30%
Barium	ND	ND	0.001	1.01	1.00	1.0%	0% - 30%
Cadmium	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ЙD	0.001	0.011	0.011	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.005	0.005	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sampl		// Percent //	- Acceptance Range
	:				
Arsenic	0.500	0.009	0.508	99.8%	80% - 120%
Barium	0.500	1.01	1.49	98.7%	80% <b>-</b> 120%
Cadmium	0.500	0.004	0.503	99.8%	80% - 120%
Chromium	0.500	ND	0.499	99.8%	80% - 120%
Lead	0.500	0.011	0.510	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.005	0.505	100.0%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846; USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst

Review

Client / Project Name	) mpras	is lan	Project Location	loracing stor				ANALYSIS / PARAMETERS							
Sampler:	Brow.	ر ا		3059-001	No. of Containers	o that					·	R	emarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample	Cont	17/2									
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				5796 U.S. Hig									Y	N	N/A
				Farmington, New 1 (505) 632	Mexico		1				-	lce/Blue Ice	1		

District I - (505) 393-6161 P. C. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 D' trict III - (505) 334-6178 Rio Brazos Road ر. NM 87410 مدرد

District IV - (505) 827-7131

APPROVED BY:

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

Env. JN: 97026-002

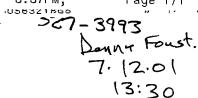
。 1975年,197	"我们就是我们就是我们的,我们们还是我们的人,我们就会不是一个人的人,我们还是什么。"
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 7.12.0	4. Generator Daws Trucking
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Hiadlewasa
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter کیدون یا
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marsto
7. Location of Material (Street Address or ULSTR)	Secll, TBZN, RGW SJ.C. NOW
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Produced us ater Contaminated 50  Location. Associated with to	Allison Unit #6M  JUL 2001  BECEIVED ONLOW  DIST. 3  COLCON. DIV  DIST. 3
Estimated Volume cy Known Volume (to be entered by the op-	erator at the end of the haul) ————— cy
SIGNATURE: Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	Manager DATE: 7.(2.0( EPHONE NO. 505-632-0615
(This space for State Use)	

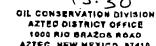
7-11-01; 2:52PM; ENVIROTEL

Page 1/1

DARRY,

632-1865





NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

AZTEC, NEW MEXICO 87410 (208) 334-817# Pax (808)334-6170

GARY E. IOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:
Dans Trucking CO.	Envirotech Soil Remediation Facility
Dawn Trucking CO. PO. Box 1498	Landarm #2
Farmington WM 87499	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Middle Mesa Spill	
Section 16 T 32W R GW	SanjuanCounty
Attach list of originating sites as appropriate  4. Source and Description of Waste	
Produce	d water mixed with Soil
1. Barry Bond	representative for:
(Print Name)	do haroby earlify that
Dawn Iruding Co.	do hereby certify that,
according to the Resource Conservation and Reco	very Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above describe	in Addita 12. (Cuser appropriate emprises
	EMPT cilfield waste which is non-hazardous by characteristic 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 documen	ntation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
This waste is in approliance with Remulated I avails of	of Naturally Occurring Radioactive Material (NORM) pursuant
to 20 NMAC 3.1 subpart 1403.C and D.	
to 20 NMAC 3.1 subpart 1403.C and D.	
to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature): Savy a	Sono
to 20 NMAC 3.1 subpart 1403.C and D.	Sond

Diatrict I - (505) 393-6161 P.O. Box 1980 Hbbbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 trict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

1. RCRA Exempt:

c, NM 87410ء۔۔

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

Santa Fe. New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Origina Plus I Com to appropriate District Office

essure

Env. JN: 0(047-001

REQUEST FOR APPROVAL TO ACC	CEPT SOLID WASTE
Non-Exempt: 🔼	4. Generator Cubs Pr
	Nava

10 Draw Verbal Approval Received: 5. Originating Site Yes 🔃 virotech Soil Remedia. Facility Landfarm #2 Envirotech 2. Management Facility Destination 6. Transporter Edvinotech 5796 US Highway 64 3. Address of Facility Operator 8. State Farmington, NM 87401 HWY SEC 19, Arriba

7. Location of Material (Street Address or ULSTR)

#### 9. Circle One:

- A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
- B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPT	TION OF MATERIAL	•	· .			
01	C V.	chido Ci		1	44-	.1

of HAUNGO DAM on NM HWY. 511.	accident a the tox
RCRA 8 Models ATTACHED	JUL 2001
AUG 2001  RECEIVED  AUG 2001  AUG 0 6 2001  Environmental Ruman	- OF MUN DAY S
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mer. s
Estimated Volume Cy Known Volume (to be entered by the operator at t	he end of the haul) ————— cy

Waste Management FacilityAuthorized Agent 505-632-0615 Harlan M. Brown TYPE OR PRINT NAME: TELEPHONE NO.

(This space for State Use)

APPROVED BY:

APPROVED BY

District I - (-505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

Rio Brazos Road

District IV - (505) 827-7131

c, NM 87410 مدرم

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

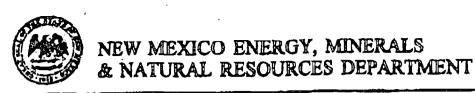
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN:

Env. JN: 01047-001

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Cubo Pressure
Verbal Approval Received: Yes 🔲 No 🖳	5. Originating Site Mar Unio Druce
2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2	6. Transporter Eduinotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State How Maxico
7. Location of Material (Street Address or ULSTR)	NWY Sec 19, T30H, R7W Ris Arriba Country, DM.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be ac Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be ac PROVE the material is not-hazardous and the Generator's certificat listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consign</li> </ul>	companied by necessary chemical analysis to ion of origin. No waste classified hazardous by
Clean up of Vehicle fluids at a	Truck accident @ the top
of HAUNGO DAM ON NEW HOY 511.	
RCRA 8 Mobals ATTACHED	
	JUL 2001 RECEIVED OIL COM DRY DIST. S
Estimated Volume Cy Known Volume (to be entered by the o	perator at the end of the haul)
SIGNATURE: Harlan M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TE	Manager DATE: 7. 10.0 (
(This space for State Use)  APPROVED BY: Demy Tem TITLE: Geole	0915 T DATE: 7/10/01
APPROVED BY: TITLE:	DATE:



GIL CONSERVATION DIVISION AZTEC DISTRICT DEFICE 1098 MID BRAZOS ROAD AZTEC, NEW WEXICO 87416 (505) 334-6178 Feb (808)334-6178

GARY E. JOHNSON GOVERNOR JENNIFER A. SALISBURY CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1 4 00 0 0 000 001	l w r r h Carl Danadianian Danilétur
GUDD Pressure Costrol	Envirotech Soil Remediation Facility
3650 BF HWY , 87499 Farmington, NM, 87499	Landarm #2
	Hilltop, New Mexico
mailing 20 Bex 2970 Famington, alm stuff	Location of the Waste (Street address &/or ULSTR):
3. Originating Site (name):	FOCABOLL OL CUD AARDIA (DELOCK ADDICATE ATO 11-7).
TRUCK WITTER SITE	
Boston of NAVESO Dam Rd (511)	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Venick Fluids	·
	·
	· 1
· ·	(
1, Jack Armstrones (Print Name)	representative for:
(Print Name)	do hereby certify that,
CUDD PRESSURE CONTROL	ry Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and recover 1988, regulatory determination, the above described	A WCE IUCKAL BIID CLISHONHALITE LINESCON AGENT 2 2015.
1988, telegistory peterithustion, the appare described	19319 18. follock appropriate advantaged
	,
EVERAPT allfield waste NON-EXEM	
<b>2</b> / <b>2</b> /14 1 2/11/0/2 1/2022	IPT oilfield waste which is non-hazardous by characteristic
analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
<b>2</b> / <b>2</b> /14 1 2/11/0/2 1/2022	IPT oilfield waste which is non-hazardous by characteristic by product identification
analysis or and that nothing has been added to the exempt or no	IPT oilfield waste which is non-hazardous by characteristic by product identification
analysis or and that nothing has been added to the exempt or no For NON-EXEMPT weste the following documents	n-exempt non-hazardous waste defined above.
analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT weste the following documents  MSDS Information	IPT oilfield waste which is non-hazardous by characteristic by product identification
analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT weste the following documents  MSDS Information  RCRA Hazardous Waste Analysis	IPT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):
analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT weste the following documents  MSDS Information	n-exempt non-hazardous waste defined above.
analysis or  and that nothing has been added to the exempt or no  For NON-EXEMPT weste the following documents  MSDS Information  RCRA Hazardous Waste Analysis	n-exempt non-hazardous waste defined above.
analysis or and that nothing has been added to the exempt or no For NON-EXEMPT weste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	IPT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached icheck appropriate items):  Other (description):
analysis or and that nothing has been added to the exempt or not for NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of its content of the compliance with Regulated Levels of its content of the compliance with Regulated Levels of its content of the compliance with Regulated Levels of its content of the	n-exempt non-hazardous waste defined above.
analysis or and that nothing has been added to the exempt or no For NON-EXEMPT weste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	IPT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached icheck appropriate items):  Other (description):
analysis or and that nothing has been added to the exempt or not for NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of its content of the compliance with Regulated Levels of its content of the compliance with Regulated Levels of its content of the compliance with Regulated Levels of its content of the	IPT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached icheck appropriate items):  Other (description):
analysis or and that nothing has been added to the exempt or no For NON-EXEMPT weste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of for 20 NMAC 3.1 subpart 1403.C and D.	IPT cliffeld waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):  Other (description):  Vaturally Occurring Radioactive Material (NORM) pursuant
analysis or and that nothing has been added to the exempt or no For NON-EXEMPT weste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of for 20 NMAC 3.1 subpart 1403.C and D.	IPT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached icheck appropriate items):  Other (description):
analysis or and that nothing has been added to the exempt or not for NON-EXEMPT weste the following documentation MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature): Jack Cham	IPT cliffeld waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):  Other (description):  Vaturally Occurring Radioactive Material (NORM) pursuant
analysis or and that nothing has been added to the exempt or no For NON-EXEMPT weste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of for 20 NMAC 3.1 subpart 1403.C and D.	IPT cliffeld waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):  Other (description):  Vaturally Occurring Radioactive Material (NORM) pursuant
analysis or and that nothing has been added to the exempt or not for NON-EXEMPT weste the following documentation MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature): Jack Cham  Title: Mango.	IPT cliffeld waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):  Other (description):  Vaturally Occurring Radioactive Material (NORM) pursuant
analysis or and that nothing has been added to the exempt or not for NON-EXEMPT weste the following documentation MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of the 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature): ACK Communication of the exempt or not support the following documents and the exempt or not support the following documents and the exempt or not support the exe	IPT cliffeld waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  tion is attached (check appropriate items):  Other (description):  Vaturally Occurring Radioactive Material (NORM) pursuant



#### TRACE METAL ANALYSIS

		•	
Client:	Cudd Pressure Control	Project #:	01047-001
Sample ID:	Stockpile Grab	Date Reported:	05-31-01
Laboratory Number:	19921	Date Sampled:	05-25-01
Chain of Custody:	8674	Date Received:	05-29-01
Sample Matrix:	Soil	Date Analyzed:	05-31-01
Preservative:	Cool	Date Digested:	05-31-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
			•
Arsenic	0.068	0.002	5.0
Barium	4.34	0.002	100
Cadmium	0.056	0.002	1.0
Chromium	0.238	0.002	5.0
Lead	0.546	0.002	5.0
Mercury	ND	0.002	0.2
Selenium	0.034	0.002	1.0
Silver	ND	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Truck Wreck - Navajo Dam.



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-31-TM QA/QC	Date Reported:	05-31-01
Laboratory Number:	19921	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	05-31-01
Condition:	N/A	Date Digested:	05-31-01

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detectio Limit	n Sample	e Duplicate	% Diff:	Acceptance Range
Arsenic	ND	ND	0.002	0.068	0.066	2.9%	0% - 30%
Barium	ND	ND	0.002	4.34	4.36	0.5%	0% - 30%
Cadmium	ND	ND	0.002	0.056	0.056	0.0%	0% - 30%
Chromium	ND	ND	0.002	0.238	0.234	1.7%	0% - 30%
Lead	ND	ND	0.002	0.546	0.540	1.1%	0% - 30%
Mercury	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.002	0.034	0.034	0.0%	0% - 30%
Silver	ND	ND	0.002	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	e Spiked Sample		Acceptance Range
Arsenic	1.00	0.068	1.06	99.3%	80% - 120%
Barium	1.00	4.34	5.32	99.6%	80% - 120%
Cadmium	1.00	0.056	1.05	99.4%	80% - 120%
Chromium	1.00	0.238	1.23	99.4%	80% - 120%
Lead	1,00	0.546	1.54	99.6%	80% - 120%
Mercury	0.100	ND	0.098	98.0%	80% - 120%
Selenium	1.00	0.034	1.03	99.6%	80% - 120%
Silver	1.00	ND	0.998	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19921 and 19937.

Analyst

Review

																- 17
Cudd Press	ure Con	Iva (	Project Location Truck W	reck-1	Navajo A	1-44	02452		Α	NALYSI	S / PAR.	AMETERS			<del></del>	
Sampler:	7		Client No.	7-00	(	No. of ontainers	RCRA 8						Re	marks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	Conts	REC	,							-	
STOCKPILE GRAB	5.25.01	16:00	19921	2	500(	L	/									
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					;									Y	N	N/A
					5796 U.S. I ington, Ne			1				Received I	ntact			
						32-0615						Cool - Ice/Bl	lue Ice			

District (505) 393-6161 P. C. Box 1980 Hobbs, NM 88241-1980 Dist. II (505) 748-1283 811 S. First Artesia, NM 88210 Velct III - (505) 334-6178 Rio Brazos Road

C. NM 87410 District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Submit Original Plus I Copy to appropriate District Office

Form C-138

Originated 8/8/95

Env. JN:

1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes No 🔄	5. Originating Site wain your
2. Management Facility Destination Environech Soil Remedia.	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Naw Hayou
7. Location of Material (Street Address or ULSTR)	3440 Houningster Dr.
. Circle One:	
Generator; one certificate per job.  B. All requests for approval to accept non-exempt wastes must be a PROVE the material is not-hazardous and the Generator's certificatisting or testing will be approved:  All transporters must certify the wastes delivered are only those consignation.	ation of origin. No waste classified hazardous i
RIEF DESCRIPTION OF MATERIAL:	
Spills and Cooks of Compression	Phisas in gravelled story
Terpettadad MAN 2002  OLOGO ON  OLOG	Note MEK levele
70-40 Known Values the be entered by the	Benzene Levels
cy Known volume (to be entered by the	operator at the end of the made)
IGNATURE: Waste Management Facility Authorized Agent  YPE OR PRINT NAME: Harlan M. Brown  T	DATE: 12-28-0( ELEPHONE NO. 505-632-0615
This space for State Use)	
APPROVED BY Deny Found TITLE: En 1	rof Engr DATE: 0//03/0
APPROVED BY Martin ghis TITLE: Environ	mm 61 Geologst DATE: 01/08/02

District I - (505) 393-6161
P-O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 S. First
Artesia, NM 88210
Trict III - (505) 334-6178
Rio Brazos Road
C, NM 87410
District IY - (505) 827-7131

APPROVED BY:

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Main Yang
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Enviro teal
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Muzzoles
7. Location of Material (Street Address or ULSTR)	3440 Houningster Dr. Forming ton, Na.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	empanied by necessary chemical analysis to n of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	for transport.
Estimated Volume   20-40 cy Known Volume (to be entered by the open Waste Management Facility Authorized Agent TYPE OR PRINT NAME:  Harlan M. Brown  Tele	rator at the end of the haul) ————————————————————————————————————
(This space for State Use)	
APPROVED BY: Dany Frent TITLE: Envi	ro/ Engr DATE: 01/03/02

TITLE:

DATE:

1. Generator Name and Address:

3440 morningstan Drive.

Universal Compression, INC



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS HOAD AZYEC, NEW MEXICO B7418 (508) 334-6178 Fax (505)334-61

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

2. Destination Name:

Landarm #2

Envirotech Soil Remediation Facility

Farmington, N.M. 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Universal compression Inc.	(Yard spills and Leaks)
3440 morning star Drive	
Farmington, W. M. 87401 Attach list of anginating sites as appropriate	
4. Source and Description of Waste	
YARD SPILS AND LEAKS	
·	
	·
1, Douglas N. Clapper (Print Name)	representative for:
() Niversal Compression, IA	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	vaste is: (Check appropriate classification)
EXEMPT oilfield waste X NON-EXEM	PT pilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
	<del></del> ,
For NON-EXEMPT waste the following documentar	
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis Chain of Custody	
	Internally Organization Parliametry Material (NOPM) pursuant
This waste is in compliance with Regulated Levels of Nation 20 NMAC 3.1 subpart 1403.C and D.	laturally Occurring Radioactive Material (NORM) pursuant
ED SO (MAINE 311 apphase 1 40016 210 0)	
	/
Name (Original Signature): Douglas Y. Cla	- All Control of the
,	· <b>,</b>
Title: Lead Mechanic	
Date: 12-27-0/	



#### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Sample ID: Universal Compression Yard Spills & Leaks

Project #: Date Reported: 98059-001

Lab ID#:

20848

09-07-01

Sample Matrix:

Soil

Date Sampled:

08-27-01

Preservative:

Cool

Date Received: Date Analyzed:

09-04-01 09-05-01

Condition:

Cool and Intact

Chain of Custody:

9562

**Parameter** 

Result

**IGNITABILITY:** 

**Negative** 

**CORROSIVITY:** 

Negative

pH = 7.22

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation

of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments:

3440 Morningstar Dr., Farmington, NM.

Analyst



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	Yard Spills & Leaks	Date Reported:	09-10-01
Laboratory Number:	20848	Date Sampled:	08-27-01
Chain of Custody:	9562	Date Received:	09-04-01
Sample Matrix:	TCLP Extract	Date Extracted:	09-05-01
Preservative:	Cool	Date Analyzed:	09-10-01
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	0.2
2-Butanone (MEK)	0.0163	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0012	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Fluorobenzene	100%
	1,4-difluorobenzene	100%
,	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

3440 Morningstar Dr., Farmington, NM.

Analyst C. africal

Review Marters



### EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	Yard Spills & Leaks	Date Reported:	09-10-01
Laboratory Number:	20848	Date Sampled:	08-27-01
Chain of Custody:	9562	Date Received:	09-04-01
Sample Matrix:	TCLP Extract	Date Extracted:	09-05-01
Preservative:	Cool	Date Analyzed:	09-10-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
	, , , , , , , , , , , , , , , , , , ,		\ \ \ \ \
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

3440 Morningstar Dr., Farmington, NM.

Analyst C. Ofercan

Review



#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Universal Compression	Project #:	98059-001
Sample ID:	Yard Spills & Leaks	Date Reported:	09-10-01
Laboratory Number:	20848	Date Sampled:	08-27-01
Chain of Custody:	9562	Date Received:	09-04-01
Sample Matrix:	TCLP Extract	Date Extracted:	09-05-01
Preservative:	Cool	Date Analyzed:	09-10-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND :	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

0.4/0.0 4	D = 11 = 14 = 11	D D
QA/QC Acceptance Criteria	Parameter	Percent Recovery
ALLAC Mosephanos enteria		

#### 2-fluorobiphenyl

99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

3440 Morningstar Dr., Farmington, NM.

Analyst Ceferen

Review Multers



## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	Yard Spills & Leaks	Date Reported:	09-07-01
Laboratory Number:	20848	Date Sampled:	08-27-01
Chain of Custody:	9562	Date Received:	09-04-01
Sample Matrix:	TCLP Extract	Date Analyzed:	09-07-01
Preservative:	Cool	Date Extracted:	09-05-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	Concentration	Det. Limit	Regulatory Level
Parameter	(mg/L)	(mg/L)	(mg/L)
		,	
Arsenic	0.018	0.001	5.0
Barium	0.422	0.001	100
Cadmium	0.007	0.001	1.0
Chromium	ND	0.001	5.0
Lead	0.016	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.005	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:

3440 Morningstar Dr., Farmington, NM.

Alexa C. Cefuca

C'Mistri m Walters
Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client: Sample ID:	QA/QC Laboratory Blank	Project #: Date Reported:	N/A 09-10-01
Laboratory Number: Sample Matrix:	09-10-TCV Water	Date Sampled: Date Received:	N/A N/A
Preservative: Condition:	N/A N/A	Date Analyzed: Analysis Requested:	09-10-01 TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND-	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
	Fluorobenzene	100%	
	1,4-difluorobenzene	100%	
	4-bromochlorobenzene	100%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 20848.

Aller C. Ogleren

Mustine m Warters
Review



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

	· .		
Client:	QA/QC	Project #: '	N/A
Sample ID:	Method Blank	Date Reported:	09-10-01
Laboratory Number:	09-05-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-10-01
Condition:	N/A	Date Extracted:	09-05-01
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits
raiailletei	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
	Fluorobenzene	99%	
	1,4-difluorobenzene	98%	
	4-bromochlorobenzene	98%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 20848.

Analyst L. Ogleren

Mister of Walters
Review



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client: Sample ID: Laboratory Number:	QA/QC Matrix Duplicate 20848	Project #: Date Reported: Date Sampled:	N/A 09-10-01 N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-10-01
Condition:	N/A	Date Extracted:	09-05-01

		Duplicate		, p. 1
	Sample	Sample	Detection	
·	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0163	0.0163	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0012	0.0012	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 20848.

Analyst C. Cyline

Mistro M Waeters Review



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

QA/QC Client: Project #: N/A Sample ID: Matrix Spike Date Reported: 09-10-01 Laboratory Number: 20848 Date Sampled: N/A Sample Matrix: **TCLP Extract** Date Received: N/A Analysis Requested: **TCLP** Date Analyzed: 09-10-01 Condition: N/A Date Extracted: 09-05-01

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L) (mg/		Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0163	0.050	0.0653	0.0001	98%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	<b>′98</b> %	43-143
Benzene	0.0012	0.050	0.051	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.050	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.050	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 20848.

Analyst L. Offeren

Phristeri m Walters Review



#### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-10-01
Laboratory Number:	09-10-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-10-01
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
•	2-fluorophenol	98 %	
	2,4,6-tribromophenol	99 %	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 20848.

Den L. aferon

Review Marten



Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-10-01
Laboratory Number:	09-05-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	09-10-01
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND "	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 20848.

Analyst P. Office



Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-10-01
Laboratory Number:	20848	Date Sampled:	N/A·
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	09-10-01
		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 20848.

Analyst C. Oplerca



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-10-01
Laboratory Number:	09-10-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-10-01
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 20848.

Den C. Oferen

Pristing my Walter



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-10-01
Laboratory Number:	09-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-05-01
Condition:	Cool and Intact	Date Analyzed:	09-10-01
		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-fluorobinhenyl	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 20848.

Analyst

Review Marten



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-10-01
Laboratory Number:	20848 .	Date Sampled:	. N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	09-05-01
Condition:	N/A	Date Analyzed:	09-10-01
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND ·	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
		,

8090 Compounds

30%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 20848.

Allew C. Oglica



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-07-TCM QA/QC	Date Reported:	09-07-01
Laboratory Number:	20848	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	09-07-01
Condition:	N/A	Date Extracted:	09-05-01

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Difference	Acceptance Range
Arsenic	ND	ND	0.001	0.018	0.018	0.0%	0% - 30%
Barium	ND	ND	0.001	0.422	0.420	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.005	0.005	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spîke Conc. (mg/L)	Spike Added	Sample	e Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.018	0.517	99.8%	80% - 120%
Barium	0.500	0.422	0.919	99.7%	80% - 120%
Cadmium	0.500	0.007	0.506	99.8%	80% - 120%
Chromium	0.500	ND	0.499	99.8%	80% - 120%
Lead	0.500	0.016	0.514	99.6%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.005	0.504	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 20848.

Analyst

Misting Wallers
Review

### **CHAIN OF CUSTODY RECORD**

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District I : (505) 393-6161 P.O. Box 1980 Hobbi, NM 88241-1980

District II - (505) 748-1283 811 S. First Artesia, NM 88210

Victor III (505) 334-6178 Rio Brazos Road L.c. NM 87410

District IV - (505) 827-7131

#### New Mexico

Energy Minerals and Natural Resources Department

### Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138

Originated 8/8/95

Submit Original Plus I Copy to appropriate District Office

Env. JN;

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
1. RCRA Exempt: Non-Exempt:	4. Generator UNEVERSAL Comp.			
Verbal Approvat Received: Yes ☐ No 🔼	5. Originating Site Main and			
2. Management Facility Destination Facility Landfarm #2	6. Transporter Essuinted			
3. Address of Facility Operator 57.96 US Highway 64	8. State Naw Marico			
7. Location of Material (Street Address of ULSTR)	Forming for D.			
9. Circle One:				
All requests for approval to accept cliffield exempt wastes will be accept denoted; one certificate per job.     All requests for approval to accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes must be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes will be accepted with a complete wastes with a complete wastes will be accepted with a complete wastes with a complete wastes with a complete wastes with a complete wastes with a complete wastes with a complete wastes with a co	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by			
All transporters must certify the wastes delivered are only those consigned	d tortransport.			
Continuation of Famada to a of TCCP Attack.  AN 2002 OCCIVED STANDARD OF CONTINUATION OF CONTI	erator at the end of the haul)cy			
SIGNATURE: TITLE: Landfarm N  Wasse Management Facility Authorized Agent  TYPE OR PRINT NAME: Har Lan M. Brown  TEL	Manager DATE: (2.27.0 (			
APPROVED BY: 1 State Use)  APPROVED BY: 1 STATE SAUTEN	0/Eng DATE: 01/03/02			

Estrict I - (505) 393-6161

G. Box 1980

Jobbs, NM 88241-1980

District II - (505) 748-1283

11 S. First

Irtesia, NM 88210

"trict III - (505) 334-6178

Rio Brazos Road

Lec, NM 87410

<u>District IV</u> - (505) 827-7131

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>98059</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator UNIVERSAL Comp.
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essivotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marpico
7. Location of Material (Street Address or ULSTR)	3440 Morningstor Dr. Færmingten NM.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
TCLP Attack	Washbay Solids.  JAN 2002 88  OON DON'S  LIGISINIAN  LIGIS  LIGIS  LIGIS  LIGIS  LIGIS  LI
Estimated Volume Code drugs cy Known Volume (to be entered by the ope	rator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm Ma Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: 12.27.0 (  EPHONE NO. 505-632-0615
APPROVED BY: John TITLE: Envir	0/Eng/ DATE: 01/03/02



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTED DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (508) 334-6170 Frz (505)234-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

#### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Universal Compression, Inc.	Envirotech Soil Remediation Facility
3440 Morningstar Drive	Landarm #2
Farmington, N.M. 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	WAShBAY
Universal Compression, Inc. 3440 morningstar Drive.	
FArmington, w. M. 87461	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Sludge & water from wash 3	sy.
	, ·
1, Douglas N. Clapper (Print Name)	representative for:
4 4444	de harabu agrifi. Abar
UNIVERSAL Compression	do hereby certify that, y. Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described to EXEMPT oilfield waste	waste is: (Check appropriate classification)  IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta  MSDS Information  X RCRA Hazardous Waste Analysis  Chain of Custody	tion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of No. 20 NMAC 3.1 subpart 1403.C and D.	laturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	of the second second
Title: Lund Mechani	
Date: 12-27-01	



#### REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP	_3-16-01
Printed Name	Douglas N. Clapper
Title / Agency	Lead Mechanic / Universal Comp. I.
Address _	3440 MorningstarDrive
_	Farmington, U. M. 87401
Signature	•
Date _	12.27.01



#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID:

Lab ID#: Sample Matrix:

Preservative: Condition:

**Universal Compression** 

New Wash Bay 19830

Sludge Cool

Cool and Intact

Project #:

Date Reported: Date Sampled:

Date Received: Date Analyzed:

Chain of Custody:

98059-001

05-15-01

05-07-01

05-07-01

05-11-01 8646

**Parameter** 

Result

**IGNITABILITY:** 

Negative

CORROSIVITY:

Negative

pH = 7.36

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments:

3440 Morningstar.

Review



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-16-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-15-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
	N.D.	0.0004	
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.107	0.0001	<b>200</b>
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0051	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
	Fluorobeńzene	100%
·	1,4-difluorobenzene	100%
	4-bromochlorobenzene	100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

3440 Morningstar.

Alexander C. Ogleson

Christini Mulatus



### EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-17-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-16-01
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	NĎ	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:

3440 Morningstar.

Aller L. Cyler.
Analyst

Review



#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Universal Compression	Project #:	98059-001
Sample ID:	New Wash Bay	Date Reported:	05-16-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Chain of Custody:	8646	Date Received:	05-07-01
Sample Matrix:	TCLP Extract	Date Extracted:	05-09-01
Preservative:	Cool	Date Analyzed:	05-16-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)	
		, , , , , ,		<del>`</del>
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	
TUANUE Acceptance official and analysis is create vectorery	

#### 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:

3440 Morningstar.

Analyst C. Oglere

Christini m Wolten



#### **EPA METHOD 1311** TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

		Det.	Regulatory
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
Preservative:	Cool	Date Extracted:	05-09-01
Sample Matrix:	TCLP Extract	Date Analyzed:	05-15-01
Chain of Custody:	8646	Date Received:	05-07-01
Laboratory Number:	19830	Date Sampled:	05-07-01
Sample ID:	New Wash Bay	Date Reported:	05-15-01
Client:	Universal Compression	Project #:	98059-001

Parameter	Concentration (mg/L)	Limit (mg/L)	Level (mg/L)
		, ·	
Arsenic	0.006	0.001	5.0
Barium	0.346	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	ND	0.001	5.0
Lead	0.017	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

3440 Morningstar.

Analyst



### QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix:	QA/QC Laboratory Blank 05-15-TCV Water	Project #: Date Reported: Date Sampled: Date Received:	N/A 05-16-0 <b>1</b> N/A N/A
Preservative: Condition:	N/A N/A	Date Analyzed: Analysis Requested:	05-15-01 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 samples 19828, 19830 and 19865.

Analyst P. Ogles

Christini m Walters
(Review



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

	•	
QA/QC	Project #:	N/A
Method Blank	Date Reported:	05-16-01
05-09-TCV-MB	Date Sampled:	N/A
TCLP Extract	Date Received:	N/A
N/A	Date Analyzed:	05-15-01
N/A	Date Extracted:	05-09-01
	Analysis Requested:	TCLP
	Method Blank 05-09-TCV-MB TCLP Extract N/A	Method Blank  05-09-TCV-MB  TCLP Extract  N/A  Date Reported:  Date Sampled:  Date Received:  Date Analyzed:  N/A  Date Extracted:

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 Accep	tance Criteria	Parameter	Percent Recovery
		Fluorobenzene	99%
	<i>‡</i>	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 19828, 19830 and 19865.

Alu E. aperen

Amistine m Walters
Review



# EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

	•		
Client:	QA/QC	Project #:	. N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-16-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-15-01
Condition:	N/A	Date Extracted:	05-09-01

		Duplicate	•	
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0330	0.0330	0.0001	0.0%
Chloroform `	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1.4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst C. Cileur

/ Misting Martes



#### **EPA METHODS 8010/8020** AROMATIC / HALOGENATED **VOLATILE ORGANICS** QUALITY ASSURANCE REPORT

Client: QA/QC Project #: N/A Sample ID: Matrix Spike Date Reported: 05-16-01 19828 Laboratory Number: Date Sampled: N/A Sample Matrix: **TCLP Extract** Date Received: N/A **TCLP** Analysis Requested: Date Analyzed: 05-15-01 Condition: N/A Date Extracted: N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	. ND	0,050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0330	0.050	0.0820	0.0001	99%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.050	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples 19828, 19830 and 19865.



Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	05-17-01
Laboratory Number:	05-16-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-16-01
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery		
•	2-fluorophenol		98 %	
	2,4,6-tribromophenol		99 %	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Maryst P. Offeren

Mistine m Walter



Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-17-01
Laboratory Number:	05-09-TCA	Date Sampled:	N/A .
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-09-01
Condition:	Cool & Intact	Date Analyzed:	05-16-01
•		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND .	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
•	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst C. Co. Lew

(Réview



QA/QC Project #: Client: N/A Matrix Duplicate Date Reported: Sample ID: 05-17-01 Laboratory Number: 19828 Date Sampled: N/A TCLP Extract Date Received: Sample Matrix: N/A Date Extracted: Cool Preservative: N/A Cool & Intact Date Analyzed: Condition: 05-16-01 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	ŃD	0.020	0.0%

ND - Parameter not detected at the stated detection limit."

QA/QC Acceptance Criteria:	Parameter	Maximum Difference

8040 Compounds

 $\ddot{j}$ 

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 19828, 19830 and 19865.

Allen C. Oplercon

Mister m Worlden



# 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:	05-16-01
Laboratory Number:	05-16-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	05-16-01
•		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

97%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst L. Q.L.

Christini m Wouters
Review



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-16-01
Laboratory Number:	05-09-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	. N/A
Preservative:	Cool	Date Extracted:	05-09-01
Condition:	Cool and Intact	Date Analyzed:	05-16-01
	•	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.

Note:

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.

Method 6090, Nitroaronatics and Cyclic Retories, SW-646, OSEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples 19828, 19830 and 19865.

Analyst C. Cylins

Christini m Walters



# EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	. QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-16-01
Laboratory Number:	19828	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	05-16-01
		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	NĎ	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.

	<del></del>	
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 19828, 19830 and 19865.

Alle L. Ciparer
Analyst

Mister m Dereters
Réview



#### **EPA METHOD 1311** TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS **Quality Assurance Report**

Client:

Sample ID:

Laboratory Number:

Sample Matrix:

Analysis Requested:

Condition:

QA/QC

05-15-TCM QA/QC

19828

**TCLP Extract** 

**TCLP Metals** N/A

Project #:

Date Reported: Date Sampled:

Date Received: Date Analyzed:

Date Extracted:

N/A

05-15-01

N/A

N/A

05-15-01

N/A

Blank & Duplicate	nstrument :	Method		on. Sample	Duplicate	% Difference	Acceptance
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	Blank ND ND ND ND ND ND ND ND ND ND ND ND ND	Blanks ND ND ND ND ND ND ND	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	0.009 1.01 0.004 ND 0.011 ND 0.005 ND	0.009 1.00 0.004 ND 0.011 ND 0.005 ND	0.0% 1.0% 0.0% 0.0% 0.0% 0.0% 0.0%	0% - 30% 0% - 30% 0% - 30% 0% - 30% 0% - 30% 0% - 30% 0% - 30%

Hasa Spiker a same	Spikë Spikë Added	Sample 1	Spiked Sample	Bercent Recoverys-a	Acceptance : Lag Range :
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	0.500 0.500 0.500 0.500 0.500 0.050 0.500 0.500	0.009 1.01 0.004 ND 0.011 ND 0.005 ND	0.508 1.49 0.503 0.499 0.510 0.049 0.505 0.499	99.8% 98.7% 99.8% 99.8% 99.8% 98.0% 100.0% 99.8%	80% - 120% 80% - 120% 80% - 120% 80% - 120% 80% - 120% 80% - 120% 80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19828, 19830 and 19865.

Analyst

Mistere m Walter

### CHAIN OF CUSTODY RECORD

08646

lient / Project Name			Project Location	instar	ANALYSIS / PARA			METERS							
ampler: HER LAW M.				059-001	No. of Containers	CA CHELLE					·	Ren	narks		
Sample No./	Sample Date	Sample Time	Lab Number	Sample Matrix	Cont	123								, :	
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				5796 U.S. H Farmington, New	Mexic	o 8740	)1.			•	Re	ceived Intact	~		
				(505) 632	2-0615			•	, .	* •	Cool	- Ice/Blue Ice	1		1

District I - (505) 393-6161 P. O. Bax 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

Rio Brazos Road

District IV - (505) 827-7131

c. NM 87410.

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Originated 8/8/95

Env. JN: 96052.009

Form C-138

Submit Original Plus 1 Copy to appropriate District Office

(505) 827-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 4. Generator Phillips Petrol-Non-Exempt: 1. RCRA Exempt: X 5. Originating Site ST. 29-5#6A Verbal Approval Received: virotech Soil Remedia. Facility Landfarm #2 Envirotech 2. Management Facility Destination 5796 US Highway 64 3. Address of Facility Operator Farmington, NM 87401 7. Location of Material (Street Address or ULSTR) 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Soil contaminated with Condensate @ a value break Estimated Volume Known Volume (to be entered by the operator at the end of the haul) -TITIF Landfarm Manager DATE: 12.26.01 SIGNATURE: Waste Management FacilityAuthorized Agent 505-632-0615 Harlan M. Brown TELEPHONE NO. TYPE OR PRINT NAME:

(This space for State Use)

APPROVED BY:

APPROVED BY: Demy

\_\_ TITLE:

6 es 10913/

DATE: 0//03/05

TITLE: 9ed 109155

DATE: / -4-2

Harland

wish to ship to the Fruit Landison.

Fruit tech - Angel Perst Landison.

on Things 12/27 (Approx 1:00pm.)

Donat Foust.

12-26.01.

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:	r 632-	1865
Phillips PEINSCUM 3004 5525 Huy 64-Bix 3004		(	
1(2( flay 64 - 15 x 5007	Envirotech Soil Reme Landfarm #2		1 15
5323 FARMINGTON NM	Hilltop, New Mexico	632-06	15
. Originating Site (name):	Location of the Weste (Street		ILSTRI:
"D", SEL Z7, T29 N; A5 W	ells.te		
	est 40 yards of s	6,7	
Attach list of originating sites as appropriate  Source and Description of Waste		-	
· pondensate spill	From lesting Flan	KE ON 7	Ton C
· OCARRED 21/21/01 - FIVE (5) BBL	call of liquids		; ;
- FIVE (8) DAZ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Rosset A. Wintons	J	representative	for
D/ // (Print Name)		Tiebieseiten	, 101.
Phillips VETRsleum		do hereby	
scording to the Resource Conservation and Recove 188, regulatory determination, the above described	ery Act (RCRA) and Environment waste is: (Check appropriet classif	al Protection A	gency's July
	MPT oilfield waste which is non- r by product identification	nazardous by c	haracteristic
I that nothing has been added to the exempt or no	on-exempt non-hazardous waste	defined above.	<u> </u>
NON-EXEMPT waste only the following docur  MSDS Information  RCRA Hazardous Waste Analysis	nentation is attached (check app Other (description		
Chain of Custody			
0 +104			
me (Original Signature): KOBSRT A Water	5 59-3462		i ·
o: Sp EHS Spelst	;		
e: 12/24/6/			
	.		
<u> </u>	!	1	

District I - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Protect III - (505) 334-6178 Rio Brazos Road

~\_c, NM 87410

New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 DEC 2 6 2001

Environmental Bureau

RECEIVED

Submit Original Plus I Copy to appropriate District Office

Form C-138

Originated 8/8/95

Env. JN: \*\*

Oil Conservation Division

INCLUM - (505) 827-7131	Env. JN: Toosto ()
REQUEST FOR APPROVAL TO ACCEPT	A COMPANY OF THE COMP
1. RCRA Exempt: Non-Exempt: 🖸	4. Generator (La) vers at Cong
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site SJ 29-7 #6
2. Management Facility Destination Facility Landfarm #2	6. Transporter Eurinoteil
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State புப்பூட்டி
7. Location of Material (Street Address or ULSTR)	"0" Sec10 TZ94, R7W.
9. Circle One:	
All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.     B. All requests for approval to accept non-exempt wastes must be accepted.  PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.	ompanied by necessary chemical analysis in of origin. No waste classified hazardous b
All transporters must certify the wastes delivered are only those consigner	d for transport.
ENGINE Oil Contourinated soil	DEC 2001
Estimated Volume cy_ Known Volume (to be entered by the op-	
SIGNATURE: Waste Management Facility Authorized Agent	DATE: 1/2 = 13:01 505-632-0615
Waste Management Facility Authorized Agent TYPE OR PRINT NAME:  TEL	EPHONE NO.
(This space for State Use)	
APPROVED BY: Denny Kang TITLE: Envi	- 1-11 Later

<u>Diazica I</u> - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 311 S. First Inesia, NM 88210 "-trict III - (505) 334-6178 Rio Brazos Road c, NM 87410ء۔۔۔

<u>District IV</u> - (505) 827-7131

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

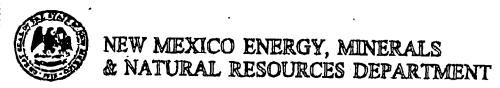
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: <u>98059-6(8</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Universal Comp
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site SJ 29-7 #63A
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Markico
7. Location of Material (Street Address or ULSTR)	"0" Sec10, TZ9N, R7W.
<ul> <li>9. Circle One:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordened provided the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	mpanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Engine Oil Contaminated soil	at a compressor leak
	DEC 2001 RECEIVED OLCON. DIV DIST. 3
10	8 2 5 2 5 S S S S S S S S S S S S S S S S
Estimated Volume cy Known Volume (to be entered by the open	rator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm Ma Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: 12-13-01  PHONE NO. 505-632-0615
(This space for State Use)	
APPROVED BY: Deny tent TITLE: Envirol.	Fust DATE: 12/19/01
APPROVED BY:TITLE:	DATE:



OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE
1900 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 57418 (508) 324-8178 Fex (505)234-61

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

1. Generator Name and Address:	2. Destination Name:
Universal Compression. 3440 Momingstor Drive	Envirotech
3440 Moningstor Drive	
Farmington, N.M. 87401	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Burlington 21-7 #63 A "	o" section 10 Township ag North Range 07 West
-	Township & 9 North
	Ranse 07 West
Attach list of originating sites as appropriate	1100.9
4. Source and Description of Waste	
Engine oil / Dirt - Soil Remedia	tion
	4
/ 11 D 15	
3cott Koclin	representative for:
Universal Con	do hereby certify that,
according to the Resource Conservation and Recov	very Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory dietermination, the above describe	
, sv	
EXEMPT oilfield waste NON-EXE	EMPT oilfield waste which is non-hazardous by characteristic or by product identification
( analysis	or by product identification
- and that nothing has been added to the exempt or n	con exampt non-harardous waste defined above
ind that hothing has been added to the exempt of h	ion-exempt non-nazarous-waste defined above.
or NON-EXEMPT waste the following document	tation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	·
Chain of Custody	
This waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of the 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of the 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant
This waste is in compliance with Regulated Levels of the 20 NMAC 3.1 subpart 1403.C and D. lame (Original Signature):	Naturally Occurring Radioactive Material (NORM) pursuant
	Naturally Occurring Radioactive Material (NORM) pursuant



#### TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	98059-018
Sample ID:	Engine Oil Upset	Date Reported:	12-17-01
Laboratory Number:	21687	Date Sampled:	12-13-01
Chain of Custody:	8860	Date Received:	12-13-01
Sample Matrix:	Soil	Date Analyzed:	12-17-01
Preservative:	Cool	Date Digested:	12-17-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)	
Arsenic	0.020	0.002	5.0	
Barium	12.1	0.002	100	
Cadmium	ND	0.002	1.0	
Chromium	1.94	0.002	5.0	
Lead	5.26	0.002	5.0	
Mercury	0.004	0.002	0.2	
Selenium	0.012	<b>0.002</b> <sup>↑</sup>	1.0	
Silver	ND	0.002	5.0	

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

29-7 #63A.

Analyst

/ Mistre of Wasters
Review



## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

		•	
Client:	QA/QC	Project #:	N/A
Sample ID:	12-17-TM QA/QC	Date Reported:	12-17-01
Laboratory Number:	21687	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	12-17-01
Condition:	N/A	Date Digested:	12-17-01

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.002	0.020	0.020	0.0%	0% - 30%
Barium	ND	ND	0.002	12.1	12.1	0.0%	0% - 30%
Cadmium	ND	ND	0.002	ND	NĎ	0.0%	0% - 30%
Chromium	ND	ND	0.002	1.94	1.94	0.0%	0% - 30%
Lead	ND	ND	0.002	5.26	5.26	0.0%	0% - 30%
Mercury	ND	ND	0.002	0.004	0.004	0.0%	0% - 30%
Selenium	ND	ND	0.002	0.012	0.012	0.0%	0% - 30%
Silver	ND	ND	0.002	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	e Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	1.00	0.020	1.02	100.0%	80% - 120%
Barium	1.00	12.1	13.00	99.2%	80% - 120%
Cadmium	1.00	ND	0.996	99.6%	80% - 120%
Chromium	1.00	1.94	2.92	99.3%	80% - 120%
Lead	1.00	5.26	6.22	99.4%	80% - 120%
Mercury	0.100	0.004	0.102	98.1%	80% - 120%
Selenium	1.00	0.012	1.01	99.8%	80% - 120%
Silver	1.00	ND	0.998	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 21687.

Analyst

Review ( ) Wal

## CHAIN OF CUSTODY RECORD

08860

Client / Project Name			Project Location		ANALYSIS / PARAMETERS								- 1				
Universel G	mpre	55 ion	29-7	7#63	3A												
Sampler:			Client No.				ည	20						R	emarks		
Sampler: 5Au Ra	_		9805	9-01	8		No. of	197									
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	16 3			, .						
Engineoil upset	12.13.01	15:00	21687		Soil		1	1									
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Relinquished by: (Signatur				Date	Time		ed by: (	(Signatu	re)		ţ	<b>I</b>			ate	ŀ	ime
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Relinquished by: (Signatur	re)					Recei	ved by: (	Signatu	re)			,					
						TE/	~LJ	100						Sample R	eceint		
				ENY	IKU		ノロ	11 11	<b>J</b> .			,		- Campio II	Y	N	N/A
					796 U.S								Rece	eived Intact	2		
				rannı	ngton, N (505)			0/40	I	-			Cool -	Ice/Blue Ice			

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
Trict III - (505) 334-6178
Rio Brazos Road
L. C. NM 87410

District IV - (505) 827-7131

APPROVED BY

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: 92187-001

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Wastern Gus Reso
Verbal Approval Received: Yes No No	5. Originating Site Saw Juan
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eurivotech.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	499 Rd 6500 Kirtland NH 87417
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted ac</li></ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
Clean up of soil contoninated w	DEC 2001 RECEIVED OL CON. DIV DIST. 3
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 12.13.01  EPHONE NO. 505-632-0615
(This space for State Use)	

TITLE: <u>Geologis</u> +



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEG DISTRICT OFFICE 1000 RIG BRAZOS ROAD AJTEC, NEW MEXICO 87410 [506] 314-6176 PAX [806]334-6170

; 6066321988

GARY E. JOHNSON GOVERNOR

JENNIFRR A. SALISBURY CABINET SECRETARY

1. Generator Name and Address: Western Gas Kesources P.U. Box70 99 Rd 6500 Kirtland, N. W. 87417 3. Originating Site (name):	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401				
3. Originating Site (name):  Pig Recierer San Juan River  99 Rd. 6500 Kirthand Nim  Attach that of prighesting sites as appropriate					
4. Source and Description of Weste  Pegging Sludge - Iron  FROM SAN JUAN RIVER	Sulfide & Soil Plant				
1988, regulatory determination, the above described	,, ,				
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 weste is in compliance with Regulated Levels of to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radiosotive Material (NORM) pursuant				
Name (Original Signature):   Title: Field / MAINTRAMME SUPERVISOR					
Date: 2/13/01					

#### HIGH DESERT SAFETY

301 SOUTH FRONTIER - 87413 BLOOMFIELD, NEW MEXICO PHONE: (505) 632-3633 - CELL: (505% 330-0614

#### **NORM SURVEY DATA SHEET**

Facility / Location: S.J. River Pigging Shedge	Date: 10-15-0/					
Meter Model: TECHNICAL ASSOCIATES - PUG-1AB	- SERIAL NUMBER: 076283					
Detector Model: TECHNICAL ASSOCIATES - P-8 - S	ERIAL NUMBER: 086288					
Battery check: (X)						
Background Radiation Level: 0.87 mR/hr						
Description of material surveyed:  Sludge from Settling tank						
Item / Material Surveyed						
Waste Material:approx. gals1 2	approx. cubic yards					
Equipment:  Manufacturer:	mR/hr: 0 · 0 9					
Serial No:	·					
Description:						
Identifier No:						
Grid Location:						
Comments:						
Survey Conducted by: Gary W. Howe						
(dimentura)						

HIGH DESERT SAFETY

301 SOUTH FRONTIER - 87413
BLOOMFIELD, NEW MEXICO
PHONE: (505) 632-3633 - CELL: (505% 330-0614

#### **NORM SURVEY DATA SHEET**

Facility / Location: S.J. RIVER Pigging	S/4dge Date: 10-15-01
Meter Model: TECHNICAL ASSOCIATES -	PUG-1AB - SERIAL NUMBER: 076283
Detector Model: TECHNICAL ASSOCIATES	S - P-8 - SERIAL NUMBER: 086288
Battery check: (X)	
Background Radiation Level: 0.07 n	nR/hr
Description of material surveyed:  Sludge From SEHELING	9 TANK
Item / Material Surveyed	
Waste Material:approx. gals	/2 approx. cubic yards
Equipment:  Manufacturer:	mR/hr: 0.69
Serial No:	
Description:	
Identifier No:	<b>,</b>
Grid Location:	·
Comments:	
Survey Conducted by: Gary W. Howe	
Dany War Usignature	<u> </u>

District I - (505) 393-6161 P.O. Box 1980 Pobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pi-trict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

APPROVED BY:

APPROVED BY:

c, NM 87410ء۔۔

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

92142

Env. JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 12-7-01	4. Generator PESCO
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site MAIN Than
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Enuivatech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Heroico
7. Location of Material (Street Address or ULSTR)	5680 US HWY GY Farmington, Na. 87401
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	mpanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Sludge & Solids gancated during of oil & gas supple & production againg Superators, delignators, Norm's Assaces & ATTACHED  Estimated Volume — Cy Known Volume (to be entered by the open signature) — Cy Known Volume (to be entered by the open signature) — TITLE: Landfarm Ma Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown — TELE	rator at the end of the haul) — cy
THE ORTHING MODIL.	
(This space for State Use)	

TITLE:

Jn: 92142

1. Generator Name and Address:	2. Destination Name:
	2. Desunation Name:
PESCO See See See See See See See See See Se	Envirotech Soil Remediation Facility
5680 Highway 64	Landfarm #2
Farmington, New Mexico 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Process Equipment & Service Company	Mainyard, stored in 55 gallon drums
5680 US Highway 64	& 18 Cubic Foot Steel Boxes.
Farmington, New Mexico 87401	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	funkiakin na dana kana kana a
Solids generated from cleaning and research separators, dehydrators, and other pro-	
separators, delightators, and other pro	oddeeron equipment.
<u></u>	·
	•
Byron_Betoni	representative for:
(Print Name) Process Equipment and Service Company,	Inc. do hereby certify that
	y Act (RCRA) and Environmental Protection Agency's July.
1988, regulatory determination, the above described v	
	PT oilfield waste which is non-hazardous by characteristic
analysis or l	by product identification
and all the contract that the contract of the contract of	average and home days were defined above
and that nothing has been added to the exempt or non	exampt non-nazardous waste defined above.
For NON-EXEMPT waste only the following docume	entation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
war (Addingt Signarya): BM	<del>Q</del> :
Name (Original Signature):	
Title: Repair Shop Supervisor	
- 1 - 1- 1	
Data: 12/07/201	

#### NORM SURVEY DATA SHEET

Facility / location. PESCO	Date: 12/07/2001
Meter Model: DOSIMETER 3007A See	rial No. 9808-238
Detector Model: DOSIMETER 3012 Ser	rial No. 201-887-7100
Calibration Date: 08/08/2001	
Battery Check: ( /)	
Background Radiation Level: 0.03 mR h	·
Description of material surveyed: (3-16)	573/BOX : 6-18 FT3/BOX)
Waste Material: 156 - approxi gals  Equipment:  Manufacturer:  Serial No  Description: 0.   Fizer Wa  Joo No	mRhr. 0.04 /
Comments:	
Survey Conducted by Byron Be ( What Name ) Byron Byron	ton.

District I - (505) 393-6161 P.O. Sox 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

(505) 827-7131

Santa Fe, New Mexico 87505

Env. JN:

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

trict III - (505) 334-6178 Rio Brazos Road c, NM 87410ء۔ District IV - (505) 827-7131

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site A-L Unit # 100
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Universac
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico.
7. Location of Material (Street Address or ULSTR)	Sec 13. TZBN, R9W.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommended acceptance.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	1 for transport.
BRIEF DESCRIPTION OF MATERIAL:  Lube ail leads at the "gas"-compre  Lube ail contamination Soil.	DEC 2001 RECEIVED OLCON. DIV DIST. 8
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M  Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL	EPHONE NO. 505-632-0615

(This space for State Use)

TYPE OR PRINT NAME:

APPROVED BY:

## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

•	
1. Generator Name and Address:  Universel Compression  3640 Worningstan	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Warren Gus Com H-1 6	nit # 100702
" Sec 13, TZ8N	R9W
Attach list of originating sites as appropriate  4. Source and Description of Waste	
Leak @ Compressor - (	not drive train).
, Kichard Tatox 2 (Print Name)	representative for:
UNIVERSAL COMPRESSIO	do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described  EXEMPT oilfield wasteNON-EXEMPT.	ery Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described  EXEMPT oilfield wasteNON-EXEMPT.	ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recover 1988, regulatory determination, the above described  EXEMPT oilfield waste NON-EXEMPT analysis of and that nothing has been added to the exempt or not make the following documents with MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  This waste is in compliance with Regulated Levels of	ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.  ation is attached (check appropriate items):
according to the Resource Conservation and Recover 1988, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT analysis of and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not and that nothing has been added to the exempt or not analysis of the Non-EXEMPT waste the following documents and that nothing has been added to the exempt or not analysis of the Non-EXEMPT waste the following documents and that nothing has been added to the exempt or not analysis of the Non-EXEMPT waste the following documents and the Non	waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.  ation is attached (check appropriate items):  Other (description):
according to the Resource Conservation and Recover 1988, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT analysis of and that nothing has been added to the exempt or not make the following documents and the matter of the exempt of the	ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  MPT oilfield waste which is non-hazardous by characteristic r by product identification  on-exempt non-hazardous waste defined above.  ation is attached (check appropriate items):  Other (description):

MATERIAL SAFETY

SUMMIT INDUSTRIAL PRODUCTS, INC.

9010 CR 2120, Tyler, TX 75707

DATA SHEET

(903) 534-8021

DATE: 03/17/97

REVISED: 03/17/97

**SUPERSEDES: 07/19/96** 

#### PRODUCT IDENTIFICATION

Trade Name:

NGP-100,NGP-150,NGP-220

Chief Constituent:

Petroleum Hydrocarbon

Hazardous Ingredients/OSHA:

None

Carcinogenic Ingredients/OSHA/NTP/IARC:

None

Ingredients Regulated by SARA Title 3, Section 313: None

#### II. WARNING STATEMENTS

None

#### III. PHYSICAL AND CHEMICAL DATA

Appearance and Odor:

Bright & Clear, mild Odor

Specific Gravity:

Less than 1.0

Boiling Point:

Not determined

Vapor Pressure:

Not determined

#### IV. FIRE PROTECTION

Flash Point:

>490°F (COC)

Extinguishing Media:

Water spray, dry chemical, foam or CO2

Special Firefighting Procedure:

Use water to cool fire exposed containers and disperse the vapors if not

ignited.

Unusual Fire Hazard:

None

#### V. REACTIVITY DATA

Thermal Stability:

Stable

Materials to Avoid:

Strong oxidizers

Hazardous Polymerization:

Will not occur

Hazardous Decomposition Products:

Oxides of carbon, nitrogen, and sulphur at combustion

temperatures.

#### VI. HEALTH HAZARD DATA

Exposure Limits:

Not established for product

Effects of Overexposure:

Possible minimal irritation

#### VII. PHYSIOLOGICAL EFFECTS SUMMARY

ACUTE:

Eyes:

Believed to be minimally irritating

Skin:

Believed to be minimally irritating Believed to be minimally irritating

Respiratory System:

Not determined

CHRONIC: OTHER:

Not applicable

SUMMIT:NGP-100, NGP-150, NGP-220

SUPERSEDES: 07/19/96

VIII. PRECAUTIONS FOR SAFE HANDLING

For general personal hygiene, wash hands thoroughly after handling material. Avoid contact with skin and eyes.

#### IX. PROTECTION AND CONTROL MEASURES

Protective Equipment: Goggles or face shield optional

Respiratory Protection: None required under normal exposure

Ventilation:

Well ventilated

#### X. EMERGENCY AND FIRST AID PROCEDURES

Eve Contact:

Flush eyes with plenty of water.

Skin Contact: Inhalation:

Wash with soap and water.

Remove from contaminated area.

Ingestion:

First Aid normally not required. If uncomfortable, call physician.

XI. NOTES				
	HAZAR	D RATING IN	FORMATION	
	NPCA/HMIS	NFPA	KEY	
Health	1	1	4 = Severe	1 = Slight
Flammability	1	1	3 = Serious	0 = Minimal
Reactivity	0	0	2 = Moderate	

#### XII. SPILL AND DISPOSAL PROCEDURES

Environmental Impact: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Recort spill to Coast Guard Toll Free Number (800) 424-8802. In case of accident or road spill, notify Chemtrec (800) 424-9300.

Procedures if Material is Released or Spilled: Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

Waste Management: Dissolve waste in a solvent and dispose by supervised incineration in compliance with applicable laws and regulations.

Toke Substance Inventory Control Act: All components are included on the TSCA Inventory and are in compliance with the TSCA.

#### FOR ADDITIONAL INFORMATION CONTACT:

SUMMIT INDUSTRIAL PRODUCTS, INC.

P. O. Box 131359 Tyler, Texas 75713 (903) 534-8021

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS ARTHOPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Ti-trict III - (505) 334-6178

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

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		- (505	7-71	31	•
4 1 2	2.0			- 0	

APPROVED BY:

atrict IV - (505) 827-7131	Env. JN: <u>976(8</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator NATCO
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Warious Lacotion
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essuratech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Playoico.
7. Location of Material (Street Address or ULSTR)	7855 Soutusila Rober Rd.
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Sludge/solids governted during el oil dges exploration & production	eaning and refurbishing
oil dges axplanation & production	a qui privait ( toutes, separa
delig's ate.). Norma Servan attached	29 9 10 11 m
	DEC 2001 PECEIVED TO DIST. SON
Estimated Volume — barum by Known Volume (to be entered by the ope	rator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELI	DATE: 12.7.01  EPHONE NO. 505-632-0615
(This space for State Use)	

	Coordinate	
1.	Generator Name and Address: Natco, 2855 Southside River RD	2. Destination Name:
	Hacco, 2001 Bouldistue River RD	Envirotech Londfam # 2 5796 U.S Huy GG
1		
<u> </u>		Farmington, Wal. 87401
3.	Originating Site (name):	Location of the Waste (Street address & for ULSTR):
	Solid generated during the cleaning	ng of oil and gas production
	eqipment, at Natco,s yard.	
	4	
4	Attach list of originating sites as appropriate	
4,	Source and Description of Waste	
	Contaminated dirt and sluge, from var	rious locations see attatched list.
		•
	^ .	
, _	Jeffrey 5/11/4/1/1000	an and the first of
	(Pont Name.	representative for:
N	Vational Tank Co. Farmington	
CEC	ording to the Resource Consequation and Recou	do hereby certify that
981	B. regulatory determination the shows describe	very Act (RCRA) and Environmental Protection Agency's July
•••	8, regulatory determination, the above described	u waste is: (Check appropriate classification)
צע	EXEMPT oilfield waste NON-EXE	
		EMPT oilfield waste which is non-hazardous by characteristic
	analysis o	or by product identification
101	that nothing has been added to the exempt or n	on-exempt non-hazardous waste defined above.
J, .	Waste only the following docu	mentation is attached (check appropriate items):
	וייסטס וחזסוווומנוסח	Other (description):
	RCRA Hazardous Waste Analysis	
	Chain of Custody	
ഷ	Original Signaturals All A	1. 17×
21110	(Original Signature):	
- ما	SACI A.	
.ie.	Safty Asst.	
re:	11-21-01	· ·



Location: /steo's Yard Junk land Date: 10/30/01
Survey instrument model: Ludlum 3-98 Last calibrated: 10-22-0/
Item description: 1- Rakel.
Number of pieces:
Location where items originated: Later's Elast lack
Background reading: uR/hr
Highest NORM reading:uR/hr (corrected for background)
Lowest NORM reading: 12.5 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Dackel was tested on all fook sides
(N.S.E. + W) The top was also texted.
repeier Jesse B. Manzarakes
Minat a final disposition Barell is of to be disposed of.
PERESSES JUlian it may Concern DES 10/30/01



Location: Matco's Vand (Wash Rack) Date: 10-20-01
Survey instrument model: <u>Ludlum 3-98</u> Last calibrated: <u>10-22-01</u>
Item description: 1- Barrel
Number of pieces:
Location where items originated: Matio's wash lack
Background reading:
Highest NORM reading: 22.5 uPvhr (corrected for background)
Lowest NORM reading: 25.0 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Denne / was tasted on all four Sides.
(N.S.E. ow) The top of bassed was a to tested. * Note & Must were paper clothing
when disposing of.
rapector Jesse Manzacales
What a transfer some find the disposed of with
ELEBORCIO Whom it may Concern. DE'S 10-20-01



Location: Matrois Yand (Wash Rack) Date: 10/30/01
Survey instrument model: Lodlom 3-98 Last calibrated: 10-22-01
Item description:
Number of pieces:
Location where items originated: 1/2 He's Mash Rack.
Background reading:
Highest NORM reading: 17-0 uR/hr (corrected for background)
Lowest NORM reading: 19-5 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Sales was tosted on all four sides
(N.S.E. + W) The top ef the Same
was also tested.
respector Jesse Manzanares.
liter & That a spos non Dagger is at to be disposal of
DERESSED TO Whom if may concern. Dere 10-20-01

#### Sheet1

	WASTE SOLIDS	
	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
	Braketeaun (em A-2	73028311
	Hanks #23	
	Hanks # 5	73027034
Burlington	Kutz (anyon # 500	1 <u>-</u>
Burlington F1017	132-9# 22R	73037091
Burhacter I 984	Mc (langhm # 6	73027092
Burlington I 1015	MC Clan Han 550	73027890
Buchinsten I 1050	KNAUSF #1	7302 8083
Barlinsten	5132-9+13A	7302 5275
Burlington I 189	San Jaun 27-4 #174	
Burlington I 815	Harrison 41	73025526
Burlington I	Handre Batera	73026385
Burlinsten	Garret Fed Com 2 #1F	73026388
Burlinston I797	127-5 166	173025185
Burlinsten I778	Burray shs lans (5	73025186
Burlington I 960	VITUASON #3	73025201
Buelinston	hurring 69	73024468
Burlington IG40	32-9 = 297	73024467
Durlington	27-5# 111M	73023368
Burlington	1 iaol17 i #2	73023152
	31-9 #41	7302-6037
Buchenston I982		1
		-
	<del>                                     </del>	F
	:	<u> </u>

Page 1

1.	Generator Name and Address:	2. Destination Name:
1	Natco, 2855 Southside River RD	
1		ı
l		
_		
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
}	Solid generated during the cleaning	of off and gas production
	eqipment, at Natco,s yard.	
ŀ	Attach list of originating sites as appropriate	
	Source and Description of Waste	
	Contaminated dirt and sluge, from various	ous locations see attatched list.
İ	College dire and Siege, 220m value	
1		
ł		
ا,	Schrig 5/114rting	representative for:
	IPnot Name,	
	National Tank Co. Famington	do hereby certify that
BCC	ording to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
198	8, regulatory determination, the above described t	waste is: (Check appropriate classification)
<u> </u>		IPT oilfield waste which is non-hazardous by characteristic
	augikas or	by product identification
		and the second s
ano	that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
iar l	NON-EXEMPT waste only the following documents	(setation is attached leback appropriate items)
- OI I	MSDS Information	Other (description):
	RCRA Hazardous Waste Analysis	Other (description).
	Chain of Custody	
	Chair of custody	,
_		
Ja (5)	e (Original Signature):	
		v. (Z
ī+le:	- Softy Asst.	
ינום	- 34/17 14 24/1	
late	: 11-21-01	
/alb	· _ '/- /-' U )	<del></del>



Location: Pateo's Vand Jan Pret Date: 10/30/01
Location: <u>Nation's Yand (Mark And )</u> Date: <u>No. /30/0/</u> Survey instrument model: <u>Ludlum 3-98</u> Last calibrated: <u>10-22-0/</u>
Item description: 1- Ralge (
Number of pieces:
Location where items originated: Lateo's What lack
Background reading: 2.5 uR/hr
Highest NORM reading:uR/hr (corrected for background)
Lowest NORM reading: 13-5 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Dagle was tested on all four sides
(N, S, E, + 20) The top was also tested.
redécion Jesse D. Manzanaris
What sirald spossion Buppel is ok to be disposed of.
PERESECTO John it may Concern Dere 10/20/01

#### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
TE 79CO	TIC RH 2/2	73024283
Teraco	Litia Rightz  Aneth Betting Fr  Paul Williams #30  Fed 35 (om #1	73024597
Texaco	Areth Rottle Fiz	6 73025265
	Paul 11/11 ams # 31	= 73628102
TERATO	Feel 35 (pm #1	73128961
1 xace	Durchales au C	173028754
Texace Rc Resources BP Amoco	Cole GCA #1	73023135
BUTMOGO	(8/4/07/	
	i	
		i
	<u> </u>	
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Page 1

, , ,	Generator Name and Address:	2. Destination Name:
1	Natco, 2855 Southside River RD	
1	Natio, 2011 Bodelistee Terver 19	<b>\</b> ,
Ĭ		) <sup>r</sup>
1		
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
ì	Solid generated during the cleaning	g of oil and gas production
1	egipment, at Natco,s yard.	
1		•
1		
<u> </u>	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	a discount of the state of the
1	Contaminated dirt and sluge, from vari	ious locations see attatemen 1151.
1	•	
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<u> </u>		
	* 1	
ا را	Jeffrey 5/11/07/1000	representative for:
	(Print Name)	
	National Tank Co. Farmington	do hereby certify that
		ary Act (RCRA) and Environmental Protection Agency's July,
198	8, regulatory determination, the above described	waste is: (Check appropriate classification)
<u> </u>		MPT oilfield waste which is non-hazardous by characteristic
	enalysis o	r by product identification
and	that nothing has been added to the exempt or ix	on-exempt non-hazardous waste defined above.
	NON-EXEMPT waste only the following documents	mentation is attached (check appropriate items):
	NON-EXEMPT waste only the following documents on MSDS Information	
	NON-EXEMPT waste only the following documents of MSDS Information  RCRA Hazardous Waste Analysis	mentation is attached (check appropriate items):
	NON-EXEMPT waste only the following documents on MSDS Information	mentation is attached (check appropriate items):
	NON-EXEMPT waste only the following documents of MSDS Information  RCRA Hazardous Waste Analysis	mentation is attached (check appropriate items):
	NON-EXEMPT waste only the following documents of MSDS Information  RCRA Hazardous Waste Analysis	mentation is attached (check appropriate items):
For	NON-EXEMPT waste only the following documents of MSDS Information  RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): Other (description):
For	NON-EXEMPT waste only the following documents of MSDS Information  RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): Other (description):
For	NON-EXEMPT waste only the following document of the following document	mentation is attached (check appropriate items): Other (description):
For	NON-EXEMPT waste only the following document of the following document	mentation is attached (check appropriate items): Other (description):
For Nam Title	NON-EXEMPT waste only the following documents of MSDS Information  RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): Other (description):



Location: Material Vand That Pack Date: 10/30/01
Survey instrument model: Ludlum 3-98 Last calibrated: 10-22-01
Item description: /- Salge /
Number of pieces:
Location where items originated: Sattoo's Mark lack
Background reading: uR/hr
Highest NORM reading: _//. 5 uR/hr (corrected for background)
Lowest NORM reading: 9.5 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Delle was tested on all four sides
(N. S. F. + W) The top was also texted.
repector: Jesse D. Manzana Pes
What a final disposition Barred is ok to be disposed of.
Paleased to John it may Concern Date: 10/30/01

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22550086	1# 419948	·
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00/2026	スツリレーもでつう	7020103
96292026	HEE # 6-86	02040)
59956057-	HE # 1-86	00000
JOB NUMBER	LOCATION	COMPANY
5527,117		
	WASTE SOLIDS	
	201 IOS 3T34W	1

1. Generator Name and Address: Natco.2855 Southside River RD	2. Destination Name:
Hacco, 2005 Boatmard 12. 2	
3. Odginating Site (name): Solid generated during the cleaning eqipment, at Natco,s yard.	Location of the Waste (Street address & for ULSTR); of oil and gas production
Attach list of originating sites as appropriate	
<ol> <li>Source and Description of Waste         Contaminated dirt and sluge, from vari     </li> </ol>	ous locations see attatched list.
Contaminated dire and stuge, from vari	toda Tocactorio dec Ellestro- Tibo.
Į.	
1	
1, Jeffrey 5/1747fines	representative for:
(Print Name,	
National Tank Co. Farmington	do hereby certify that, ary Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	MPT oilfield waste which is non-hazardous by characteristic r by product identification
	r by product identification
analysis o	n-exempt non-hazardous waste defined above.
analysis o  and that nothing has been added to the exempt or no  For NON-EXEMPT waste only the following documents on the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the management of the exempt of the management of the exempt of the management of the exempt of	n-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):
analysis of and that nothing has been added to the exempt or nothing has been added to	n-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):
analysis o  and that nothing has been added to the exempt or or  For NON-EXEMPT waste only the following documents of the matter of the matter of the following documents of the follow	n-exempt non-hazardous waste defined above.  mentation is attached (check appropriate items):  Other (description):



Location: //xteo's Yard Wack fact Date: 10/30/01
Survey instrument model: Ludlum 3-98 Last calibrated: 10-22-01
Item description: 1- Raise
Number of pieces:
Location where items originated: Jateo's Illand lack
Background reading: 12.5 uR/hr
Highest NORM reading: 14.0 uR/hr (corrected for background)
Lowest NORM reading: uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Delet was tested on all four sides
(N, 5, F, + W) The top was also tested.
repector Jesse D. Manzana P.
viral , iral of aposition Bunnel is ok to be disposed of.
ELERSECTO JUlhom it may Concern DETE 10/30/01

WASTE SOLIDS

प्राथना स्टब्स् रेशेस्य स्थिति । उत्पर्धाः 6955 COEL ·OLI 5 NAW 75501) 1725 COELI 1255 8021 31244175581 862260EL 6-0 # 20061 JM Fred Fred 51-16 73026383 8508 EOEL TIMOS SOCJUITON 66220307 RP Harground IE 5508 2056 51,94175500) 5908 605L BEIE COEL 1-) 57048 512941755017 10B NUMBER LOCATION COMPANY

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NATCO

1407011100

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RECEIVED

Form C-138 Revised March 17, 1999

DEC 18"2001 Environmental Bureau

Submit Original Plus I Copy to Appropriate District Office

Santa Fc, NM 87505 Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE	
1. RCRA Exempt: Non-Exempt:	4. Generator Eury Foruces	
Verbal Approval Received: Yes No 🔀	5. Originating Site Marial Yourd	
ENUITO もこへ 2. Management Facility Destination しよいのことには はっこ	6. Transporter Equipoles	
3. Address of Facility Operator Farmington, DM 87401	8. State ها صبح المعيى و ي	
7. Location of Material (Street Address or ULSTR)	4109 E Main Str 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 trans	port.	
Estimated Volume 40		
SIGNATURE Hallow Tu Brown TITLE: LANDFARM MANAger DATE: 12-4:01  Waste Management Facility Authorized Agent		
TYPE OR PRINT NAME: HARLAN M. BYOWN TELEPHONE NO. 505-632-0615		
APPROVED BY: Month of the Environment	Engr DATE: 12/11/01 Wall Goodget DATE: 12-18-01	

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

REQUESTION THE TO RECEI	I DOLLO WIDIL	
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator Energy Services	
Verbal Approval Received: Yes ☐ No 🔀	5. Originating Site Marial Yourd	
ENUITOTELL  2. Management Facility Destination しかめのこれをは 生 こ	6. Transporter Environment	
3. Address of Facility Operator 5796 USHWY 64 Farmington DM 87401	8. State ما مساه ما مساه ده	
7. Location of Material (Street Address or ULSTR)	4109 E Main Str Farmington NM 87401	
9. <u>Circle One</u> :	3	
<ul> <li>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.</li> <li>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</li> </ul>		
All transporters must certify the wastes delivered are only those consigned for transp	port.	
BRIEF DESCRIPTION OF MATERIAL:		
Continuation of warmbay soli TCLP attached (2-7-01	185 romediation	
Estimated Volume 40 cy Known Volume (to be entered by the open	DEC 2001 RECEIVED Oil CON. DIV DIST. 3  too at the end of the haul)cy	
SIGNATURE Hallow Brown TITLE: LANGE AREA Waste Management Facility Authorized Agent	a Managar DATE: 12-4.01	
TYPE OR PRINT NAME: HARLAN M. Brown TELEP	HONE NO. 505-632-0615	
(This space for State Use)  APPROVEDBY:  TITLE:	DATE: 12/11/01	

Printer I - (303) 393-0101
1625 N. French Dr
160bs, NM 88240
District II - (505) 748-1283
81.1 S. First
Ariesm, NM 88240
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IY - (505) 827-7131
2040 S. Pacheco

Santa Fe, NM 87505

## New Mexico Energy Anerals and Natural Resources L

nerals and Natural Resources L
Oil Conservation Division

2040 South Pacheco Street Santa Fe. New Mexico 87505 (505) 827-7131 rtment

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:  Hallburton Energy Services  4109 E Main  Farming fon, NM 87401  3. Description of Waste and Generating Process:  Confi was then of Wash bay	2.Permit Number (if waste generated at an OCD  ENVIROTECH (No permitted facility)  5796 U.S. HW764  FARMINOTON, DH 8740/  LAND FARM #Z  4. Location of Waste (Street address &/or ULSTR):
5. Destination (Surface Waste Management Facility):	6. Transporter:
LAND FARM #2 - EN Wrotech  7. Estimated Volume cy/bbls	Ed viro tech.
For NON-EXEMPT waste only, the following documentation	n is attached (check appropriate items):
MSDS Information	RCRA Hazardous Waste Analysis (With Chain of Custody).
Other (Description)	
Senerator certifies that, according to the Resource Conser Agency's July 1988 regulatory determination, the above de	rvation and Recovery Act (RCRA) and the Environmental Protection escribed 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)
n addition, Generator certifies that nothing has been addevaste does not contain Naturally Occurring Radioactive Maguppart 1403.	d to this exempt or non-exempt non-hazardous waste and that this aterial (NORM) regulated pursuant to 20 NMAC 3.1
Generator Signature: Allen Rodigue	Date: 12-03-2001
'rint Name: ALLEN J. Rodrigue	
Title: Shared SELVICES SUPER!	visor



## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Halliburton Energy Services

Project #:

92132-001

Sample ID: Lab ID#: Wash Bay Solids

Cool and Intact

Date Reported:

02-07-01

Sample Matrix:

19170 Sludge Date Sampled: Date Received:

02-02-01 02-02-01

Preservative: Condition:

Cool

Date Analyzed: Chain of Custody: 02**-**05-01 8497

Parameter

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 8.20

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments:

4109 E. Main St.

Analyst

/ Mister m Walters Review



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-06-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

	•	Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
	Trifluorotoluene	98%	
	Bromofluorobenzene	99%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

4109 E. Main St.

Dec P. agence

Mister m Walters.



#### EPA METHOD 8040 PHENOLS

	· ·	*	·.
Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-09-01
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	ΝĎ	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
i		
	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:

4109 E. Main St.

Analyst

Mistur my Walters
Review



### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-09-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Extracted:	02-05-01
Preservative:	Cool	Date Analyzed:	02-09-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

100%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992 Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

4109 E. Main St.

Deu L. aferra

Christian Walters
Review



## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132-001
Sample ID:	Wash Bay Solids	Date Reported:	02-07-01
Laboratory Number:	19170	Date Sampled:	02-02-01
Chain of Custody:	8497	Date Received:	02-02-01
Sample Matrix:	TCLP Extract	Date Analyzed:	02-06-01
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	Concentration	Det. Limit	Regulatory Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.052	0.001	5.0
Barium	0.546	0.001	100
Cadmium	0.045	0.001	1.0
Chromium	0.067	0.001	5.0
Lead	0.079	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.016	0.001	1.0
Silver	0.007	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

4109 E. Main St.

Analyst

Mistin M Walters

\*\* 07404 - Tal 505 - 000 - 0645 - Eov 505 - 600 - 106

## FOUROTECH LABS

### QUALITY ASSURANCE / QUALITY CONTROL

**DOCUMENTATION** 



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-06-01
Laboratory Number:	02-06-TCV	Date Sampled:	· N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Visual Chlorida	MD.	0.0004	0.0
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND .	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	
	Trifluorotoluene	100%	
	Bromofluorobenzene	100%	
		•	

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 19170 - 19171.

Den L. Oglan un

Mister m Walles
Review



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

			•
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-06-01
Laboratory Number:	02-05-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	. N/A
Preservative:	N/A	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	02-05-01
	(	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vr. 10kl - 1k	115	0.0004	
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	]
	Trifluorotoluene	99%	
	Bromofluorobenzene	98%	
		•	

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample 19170 - 19171.

Alle L. Que

Anistine of Walles



#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	·N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-06-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

	Duplicate			
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	. ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND .	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND .	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19170 - 19171.

Analyst C. Celina

Christine m Waller Review



## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client: Sample ID: QA/QC Matrix Spike 19170 Project #:
Date Reported:

N/A 02-06-01

Laboratory Number: Sample Matrix:

19170 TCLP Extract Date Sampled: Date Received: N/A N/A

Analysis Requested: Condition:

TCLP N/A Date Analyzed:
Date Extracted:

02-06-01 N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.049	0.0001	98%	47-132
Chloroform	ND .	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	ND	0.050	0.050	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample 19170 - 19171.

Analyst

Christine my Walters Review



# EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	. N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	. N/A	Date Analyzed:	02-09-01
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory	
	Concentration	Limit	Limit	•
Parameter	(mg/L)	(mg/L)	(mg/L)	
o-Cresol	ND	0.020	200	
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND .	0.020	2.0	
2,4,5-Trichlorophenol	ND	0.020	400	
Pentachlorophenol	ND	0.020	. 100	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
•	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19170 - 19171.

Analyst P. Quern

Misting Walter Review



### EPA METHOD 8040 PHENOLS Quality Assurance Report

	•	·	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool & Intact	Date Analyzed:	02-09-01
		Analysis Requested:	TOLE

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
•	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19170 - 19171.

Alex P. Gerer

Review

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### EPA METHOD 8040 PHENOLS Quality Assurance Report

QA/QC Project #: N/A Client: Matrix Duplicate Date Reported: 02-09-01 Sample ID: **Laboratory Number:** 19170 Date Sampled: N/A Sample Matrix: **TCLP Extract** Date Received: N/A Preservative: Cool Date Extracted: 02-05-01 Cool & Intact Date Analyzed: Condition: 02-09-01 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 19170 - 19171.

Alle P. Que

Christin M Walter
Review



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-09-01
Laboratory Number:	02-09-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-09-01
•	·	Analysis Requested:	TCLP

		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

#### 2-fluorobiphenyl

97%

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples 19170 - 19171.

Men L. aferra

A his tim m Walter Review



## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-09-01
Laboratory Number:	02-05-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-05-01
Condition:	Cool and Intact	Date Analyzed:	02-09-01
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	97%
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
	Method 3510, Separato	ry Funnel Liquid-Liquid Extraction, St	W-846, USEPA, July 1992.
	Method 8090, Nitroaron	atics and Cyclic Ketones, SW-846, t	USEPA, Sept. 1986.
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sect	ion 261.24. July 1. 1992

Comments: QA/QC for samples 19170 - 19171.

Analyst Cereice Christian Review

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## 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:	02-09-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	· N/A
Preservative:	N/A	Date Extracted:	02-05-01
Condition:	N/A	Date Analyzed:	02-09-01
•	•	Analysis Requested:	TCLP

	Sample Result	Duplicate Result	Percent	Det. Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	. ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND:	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

<u> </u>		
OALOC Assessment Cuitaria	Davamatan	Marrian Diff
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 19170 - 19171.

Analyst L. Offeren

(Review M Laster



**EPA METHOD 1311** TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS **Quality Assurance Report** 

Client:	QA/QC	Project #:	N/A
Sample ID:	02-06-TCM QA/QC	Date Reported:	02-07-01
Laboratory Number:	19170	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-06-01
Condition:	N/A	Date Extracted:	N/A

. Blank & Duplicate Conc. (mg/L)		. Method .Blank		on: Sampli	e Duplicati		Acceptance : Range :
Arsenic	ND	ND	0.001	0.052	0.051	1.9%	0% - 30%
Barium	ND	ND	0.001	0.546	0.542	0.7%	0% - 30%
Cadmium	ND	ND	0.001	0.045	0.044	2.2%	0% - 30%
Chromium	ND	ND	0.001	0.067	0.065	3.0%	0% - 30%
Lead	ND	ND	0.001	0.079	0.08	1.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%
Silver	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%

Spike 7. Conc (mg/L)	Spike: Added	Sampl	TO SHOULD BE SHO	Recovery	Acceptance.
Arsenic	0.500	0.052	0.550	99.6%	80% - 120%
Barium	0.500	0.546	1.04	99.4%	80% - 120%
Cadmium	0.500	0.045	0.543	99.6%	80% - 120%
Chromium	0.500	0.067	0.565	99.6%	80% - 120%
Lead	0.500	0.079	0.577	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.016	0.515	99.8%	80% - 120%
Silver	0.500	0.007	0.506	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19170 - 19171.

### **CHAIN OF CUSTODY RECORD**

08497

Client / Project Name Hall DBURES	o ENER	.64 =5	Project Location	Main St.				Ai	NALYSIS	/ PAR/	AMETER	RS .		<del></del>	
Sampler: Harcha K.			Client No. 92132	2-001	No. of	Containers						F	Remarks		
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District I - (505) 393-6161 P-Q. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pi-trict III - (505) 334-6178

Rio Brazos Road

APPROVED BY:

District IV - (505) 827-7131

c, NM 87410 محت

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Netco
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Esuitatech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Hexico
7. Location of Material (Street Address or ULSTR)	7855 Southside RiverRoads Farmington N.B. 87401
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accodenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accopance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	mpanied by necessary chemical analysis to not origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Sludge / Solids generated by cla  Oil & gas production equipment (so  atc), Norms Adversis wetached.	DEC 2001 (3) RECEIVED SIONLOUNDING SIONLOUND
Estimated Volume — 6 drums cy Known Volume (to be entered by the open	rator at the end of the haul) ————— cy
SIGNATURE: Hala Du Rosses Waste Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: /2.3.0( EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy Found TITLE: Fring/	Engr DATE: 12/5/01

TITLE: <u>geologist</u> DATE: 12-5-1

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Natco,2855 Southside River RD	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Solid generated during the cleaning eqipment, at Natco,s yard.	g of off and gas production
eqipment, at macco, 5 yard.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste Contaminated dirt and sluge, from var	ious locations see attatched list.
Contaminated dirt and stuge, from var	
	•
L	
1, Schring Jillartine	representative for:
National Tank Co. Farmington	do hereby certify that,
according to the Resource Conservation and Recov	ery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
XXX EXEMPT oilfield waste NON-EXE	MOT cilfield waste which is see home down by characteristic
<del></del>	MPT oilfield waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or n	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docu	montation is attached (shock and its items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	:
A 11 - A4	
Name (Original Signature):	ants)
	EST .
Title: <u>Saffy Asst.</u>	
Date: 11-3-1-01	
	<del></del>



Location: Pateo's Vand Touch Rock Date: 10/30/01
Location: <u>Marked</u> <u>Vand Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date: <u>Mark And</u> Date:
Item description: 1- Balke 1.
Number of pieces:
Location where items originated: fateo's this lack
Background reading: uR/hr
Highest NORM reading:uR/hr (corrected for background)
Lowest NORM reading: 13.5 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
(N, S, E, + W) The top was also tested.
$\rightarrow$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$
respector Jesse D. Manzanares
What is final disposition? Bunnel is ok to be disposed of.
exerces John it may Concern Det 10/30/01

#### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
TE 7900	JICB#26	73024283
Tergeo	LIMA RIENTZ	73024597
Texaco	Aneth Betting Fre	73025265
Tekaro	Faul Williams #3=	73078102
Texaco	Feel 35 (om #1	73028961
Rc Resources	Pickelson IIE	73028754
RCRESOURCES BPAMOCO	(0126CA#1	73073135
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### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Natco, 2855 Southside River RD	
	•
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Solid generated during the cleaning	Location of the Waste (Street address &/or ULSTR): of oil and gas production
egipment, at Natco,s yard.	
d-Family	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	·
Contaminated dirt and sluge, from vari	ous locations see attatched list.
Containiated dire and stage, from vari	
- 1 1 1 - 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1, Seffrey 5/114/1/1000 Print Name,	representative for:
(Print Name,	
National Tank Co. Farmington	do hereby certify that,
according to the Resource Conservation and Recove	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Waste is: (Check appropriate classification)
XXX EXEMPT oilfield waste NON-EXEM	MPT oilfield waste which is non-hazardous by characteristic
<del></del>	by product identification
, - 2	
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above
and that he along has been added to the exempt of he	TOXOTTPE TION TRAZBIOGUS WASEE USTMEG ABOVO.
For NON-EXEMPT waste only the following docum	agatation is attached Johanlyiska itamaly
COLINICAN-CALINIC I WASIN DOIV DH TOHOWING GOCGII	
MSDS Information	Other (description):
<ul><li>MSDS Information</li><li>RCRA Hazardous Waste Analysis</li></ul>	
MSDS Information	
<ul><li>MSDS Information</li><li>RCRA Hazardous Waste Analysis</li></ul>	
<ul><li>MSDS Information</li><li>RCRA Hazardous Waste Analysis</li></ul>	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  Name (Original Signature):	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  Name (Original Signature):	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody  Name (Original Signature):	
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	



Location: //xtco's Yard Touch Rack Date: 10/30/01
Survey instrument model: Ludlum 3-98 Last calibrated: 10-22-01
Item description: 1- Balke (.
Number of pieces:
Location where items originated: fateo's Mash lack
Background reading: uR/hr
Highest NORM reading:uR/hr (corrected for background)
Lowest NORM reading: 9.5 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Dackel was tested on all four Sides.
Remarks: Dackel was tested on all four Sides.  (N, S, E, & W) The top was also tested.
respector Jesse D. Manzana res
What is final disposition? Bupple I's ok to be disposed of.
Peleased to: Johan it may Concern Date: 10/30/01

#### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
	100 F. (10 10 M)	+ 72.0 2 QQ 3
Conoco	14 × Key (15 12 0+1 28-7 # 32A Sy 28-7106 X	730777
1.200	Su 28-7/12/2 X	73034.00
(0000	Lindreth 178	73078733
CONOCO	BAbbit #1	73078322
lanoco	Johnsten ALF	73078089
Consco	13017739147911	13078081
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### **CERTIFICATE OF WASTE STATUS**

1.	Generator Name and Address:	2. Destination Name:
	Natco,2855 Southside River RD	
L		
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR): of oil and gas production
}	Solid generated during the cleaning	of oil and gas production
]	eqipment, at Natco,s yard.	
	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	leastime and attatahed list
1	Contaminated dirt and sluge, from varia	ous locations see accardied list.
ļ		
L	Jeffrig 511141 Lines	representative for:
	(Print Name,	representative for:
	National lank Co. Fallittigeon	do hereby certify that
	fording to the Resource Conservation and Recover 38, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July
	· · · · · · · · · · · · · · · · · · ·	· Clack appropriate classification
XXX	EXEMPT oilfield waste NON-EXEM	APT oilfield waste which is non-hazardous by characteristic
	analysis or	by product identification
	that nothing has been added to the exempt or no	n avagent non haverdave waste defined above
aixu	that nothing has been added to the sample of the	n-exempt non-nazardous waste defined above.
For	NON-EXEMPT waste only the following docum	nentation is attached (check appropriate items):
	MSDS Information	Other (description):
	RCRA Hazardous Waste Analysis	•
	Chain of Custody	
<del></del> -		
	1 // 2 2/4	
Nar	ne (Original Signature):	uty)
۱ . مج	Sall Acceptance	
iitie	ne (Original Signature): Jeffy J Ma. e: Saffy Asst.	
	•	
Dat	e: 11-21-01	



Location: Materia Yard Track Pred Date: 10/30/01
Survey instrument model: Ludlum 3-98 Last calibrated: 10-22-01
Item description: 1- Barrel.
Number of pieces:
Location where items originated: fateo's Mash lack
Background reading: uR/hr
Highest NORM reading:
Lowest NORM reading:uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Dackel was tested on all four sides.
(N, S, E, + W) The top was also tested.
respector Jesse D. Manzanares
That is final disposition Bupple I's ok to be disposed of.
Exercised to John it may lonceth Date: 10/30/01

#### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
Crosstimbers	Rhades (-1	73023134
Coastumbers	Cany on # 6	73078065
Yto Energy	RP Harground 1=	7302 8099
Tto FALLEY	Myrtinens ComiF	73028098
Crosstimpins	Fred Fucasel J-iE	
Crosstimbers	Mc Adams HD-2	
(vosstanties	Jack Frest BIF	73025527
Crosstimbirs	RiddiettsE	73025264
TO	Riddle #3E	73028960
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### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Natco, 2855 Southside River RD	
,1000,100	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Solid generated during the cleaning	of oil and gas production
egipment, at Natco,s yard.	
	·
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Contaminated dirt and sluge, from vario	ous locations see attatched list.
	•
^ ^ ^	
1, Seffrey 5/1741-1100-	representative for:
(Print Name,	
National Tank Co. Farmington	do hereby certify that,
	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	vaste is: (Check appropriate classification)
	•
EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic
	PT oilfield waste which is non-hazardous by characteristic by product identification
	PT oilfield waste which is non-hazardous by characteristic by product identification
	by product identification
analysis or and that nothing has been added to the exempt or nor	by product identification  n-exempt non-hazardous waste defined above.
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum	by product identification  n-exempt non-hazardous waste defined above.
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum MSDS Information	by product identification  n-exempt non-hazardous waste defined above.
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum MSDS Information	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or  and that nothing has been added to the exempt or nor  For NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or  and that nothing has been added to the exempt or nor  For NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis Chain of Custody  Name (Original Signature):	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis Chain of Custody  Name (Original Signature):	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):
analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	by product identification  n-exempt non-hazardous waste defined above.  entation is attached (check appropriate items):



Location: 1/4 too's Yand Wash fact ) Date: 10/30/01
Survey instrument model: Ludlum 3-98 Last calibrated: 10-22-01
Item description: 1- Barrel.
Number of pieces:
Location where items originated: Jatoo's Illust lack
Background reading: uR/hr
Highest NORM reading:uR/hr (corrected for background)
Lowest NORM reading: 12.5 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Dackel was tested on -all-four sides.
(N, S, E, + W) The top was also tested.
respector Jesse D. Manzanaer
that is final disposition Bupple is ok to be disposed at.
ELESSECTIO JUlhom it may Concern DETE 10/30/01



Location: Matco's Vand (Wash Pack) Date: 10-30-01
Survey instrument model: Ludlum 3-98 Last calibrated: 10-22-01
Item description: 1- Bappel
·
Number of pieces:
Location where items originated: Natco's wash Rack
Background reading:
Highest NORM reading:
Lowest NORM reading:25.0 uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Bassel- was tested on all four Sides.
(NS, E+W) The top of Samel was also tested. * Note * Must weak proper clothing
when disposing of.
radector Jesse Manzancies.
What's Traidisposition Dunce i's ok to be disposed of with Proper Protection.  Belessed to Whom if may Concern. Date: 10-30-01
BEESED 10 Mhom it may concern, Det. 10-20



Location: Matoo's Yand (Wash Ruck) Date: 10/30/01
Survey instrument model: <u>Ludlum 3-98</u> Last calibrated: <u>10-22-01</u>
Item description: 1- Da are(
Number of pieces:
Location where items originated: Mateo's Wash Rack.
Background reading:uR/hr
Highest NORM reading: 17.0 uR/hr (corrected for background)
Lowest NORM reading:uR/hr (corrected for background)
Any samples taken? If so, how many?
Piecas inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Sappel was fosted on all four sides
(N.S.E., + W) The top of the Sannel
repector Jesse Manzanages.
What's traidisposition Dancel is ok to be disposed of
Exerced to Whom if may concern. Date 10-20-01

#### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
Burlington I1057	Brackitequin (ant-2	73028311
Burlington I997	Hanks #23	73027083
Burlington Floog	Hanks #5	73027084
Burlinston	Kutz (anyon #500	73027555
Burlington F1017	32-9# 22R	73077091
Burhasten I 994	Mc Clanghm #6	73027092
Burlington I 1015	Mc Clan Han 550	73027580
Burlington I 1050	5J32-9#13A	7302 8083
Burlinston	15J32-9#13A	7302 5275
Burlington I 189	San Jaun 37-4 #174	
Burlington ISI5	Harrison 41	73025536
Burlington I	Handre B2#12	73006385
Burlington	Garret Fed Com 2 #11	73026388
Burlington I797	27-5 166	73025185
Burlington I 778	Burroy sho Com CS	73025186
Burlington I 960	VITHUSON #3	73025201
Burlington	VILLER FUNCTO COS	73024468
Burlington I 940	32-9 = 297	73024467
Burlington	27-5H111M	73023368
Burlinston	1 (acter) # Z	73023152
Burlington I982	32-9 #41	7362 4037
,		•
	<u> </u>	

District I - (505) 393-6161 P. C. Box. 1980 Hobos, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pirtrict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

APPROVED BY:

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: <u>97057-088</u>

DEQUEST FOR ARREOVAL TO ACCEPT	COLDWACTE
REQUEST FOR APPROVAL TO ACCEPT	SOLID WAS IE
1. RCRA Exempt: Non-Exempt: 10.17.01	4. Generator EPFS
Verbal Approval Received: Yes 🗹 No 🔲	5. Originating Site Compression S
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Environtesh
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marico
7. Location of Material (Street Address or ULSTR)	"G" Sec 19, T30N, RIOW SAN Tuen County, NON,
9. Circle One:	3.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommended acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommended and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
petroleum hydrocorbon contominated: taule battere on gathering System;	soil From upset@ condonsare & produced
400	NOV 2001 RECEIVED OIL CON. DIV DIST. 3
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) ———— cy
SIGNATURE: Harlan M. Brown  TITLE: Landfarm Management FacilityAuthorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: (1-27-0(  EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy Tem TITLE: Envira	0/Engr DATE: 11/29/81

#### **CERTIFICATE OF WASTE STATUS**

1. Gene	erator Name and Address:	2. Destination Name:		
	El Paso Field Services Co.	Envirotech Soil Remediation Facility		
1	614 Reilly Avenue	Landfarm #2		
	Farmington, NM 87401	Hilltop, New Mexico		
3. Origi	nating Site (name):	Location of Waste(Street address &/or ULSTR):		
Potter Ca	anyon Compressor Station	Section 19, T30N, R10W, San Juan Co., NM		
	Attach list of originating sites as appropriate  4. Source and Description of Waste			
Soil con	staminated with hydrocarbons and produce	ed water from the natural gas gathering system.		
	•			
1,	David Bays	representative for:		
	(Print Name)			
	El Paso 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)				
		NON-EXEMPT oilfield waste which is non-hazardous by		
<u>X</u> E	XEMPT Oilfield waste	characteristic analysis or by product identification		
and tha	t nothing has been added to the exampt or	then become weath defined above		
anu ma	t nothing has been added to the exempt or	non-nazardous waste defined above.		
For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):				
	MSDS Information Other (description)			
	RCRA Hazardous Waste Analy			
	Chain of Custody			
Name	(Original Signature):	2 Bay		
Title:	Principal I	Environmental Scientist		
		<del></del>		
Date:	October 1	9, 2001		

District I - (505) 393-6161 P. Q. 30x 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 Rio Brazos Road

District IY - (505) 827-7131

c, NM 87410 مدرد

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

Env. JN: <u>92187</u>

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Wastarn Gras Regources
Verbal Approval Received: Yes 🔼 No 🔲	5. Originating Site Planing Poot
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter LASSING Coust
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Utah Dowlla
7. Location of Material (Street Address or ULSTR)	South of Elkhorn floor
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceded accept; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept provided the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:  Pigging woods contour ustage 500 pigging port for Westerness Grown  Estimated Volume Usy cy Known Volume (to be entered by the open	NOV 2001 RECEIVED OIL CON. DIV DIST. 3
SIGNATURE: Waste Management Facility Authorized Agent  Waste Management Facility Authorized Agent  Waste Management Facility Authorized Agent	DATE: 11.26.61 505-632-0615
TYPE OR PRINT NAME: Harlan M. Brown TEL	EPHONE NO
APPROVED BY: APPRO	DATE: 11/29/01





## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEG DISTRICT OFFICE 1800 RIO GRAZOS ROAD AZTEC, NEW MEXICO 87418 [508] 534-8170 Fax [505]334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

#### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:		
Western Gas Resources	Envirotech Inc.		
P.U. BOX70 99 Rd 6500	Soil Remediation Remediation Facility		
Kirtland, N.M. 87417	Landfarm #2, Hilltop, New Mexico		
3. Originating Site (name):	5796 IIS Hwy 64. Farmington, NM 87401 Location of the Waste (Street address &/or ULSTR):		
Pig Reciever San Juan River			
99 Rd. 6500 Kirtland N.M	· 27417		
Amount Not of anisination sites an appropriate			
Attach list of originating sites as appropriate  4. Source and Description of Waste			
1	5.10%		
Pigging Sludge - Iron 4 SAND CLEAN UP	Julticle		
4 SAND CISAN UP	ON PIPELINE		
	,		
11 51/ 521			
1. HRIYN IBORSON	representative for:		
WESTERN GAS RESOURCES	do hereby certify that,		
according to the Resource Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's July,		
1988, regulatory determination, the above described			
	IPT oilfield waste which is non-hazardous by characteristic		
analysis or	by product identification		
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.		
die Brate trouming time books de die die breek per			
For NON-EXEMPT waste the following documenta	ition is attached (check appropriate items):		
MSDS Information	Other (description):		
RCRA Hazardous Waste Analysis			
Chain of Custody			
Harry Market Company			
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.			
$\overline{a}$			
Name (Original Signature): The Mary			
FILL T			
Name (Original Signature): Def Mariner  Title: Fisld/MAINTENANCE SUPERVISOR  Date: 11/19/01			
Date Villala	•		
Date: //////			

HIGH DESERT SAFETY

301 SOUTH FRONTIER - 87413 BLOOMFIELD, NEW MEXICO PHONE: (505) 632-3633 - CELL: (505% 330-0614

#### **NORM SURVEY DATA SHEET**

Facility / Location: Hweth Pig Launch en	Date: 10-15-01
Meter Model: TECHNICAL ASSOCIATES - PUG-14	AB - SERIAL NUMBER: 076283
Detector Model: TECHNICAL ASSOCIATES - P-8	- SERIAL NUMBER: 086288
Battery check: (X)	
Background Radiation Level: 0.07 mR/hr  Description of material surveyed:  Sludge from Settling fant	led of Children
Item / Material Surveyed  Waste Material:approx. gals	<i>H</i>
Equipment:  Manufacturer:	mR/hr: <u>0 - 8 9</u>
Serial No:	_
Description:	
Identifier No:	<del>_</del>
Grid Location:	_
Comments:	
Survey Conducted by: Gary W. Howe	
Lange Have (signature)	

District I - (505) 393-6161 P.O. Box 1980 Hebbs, NM 88241-1980 <u>District II</u> - (505) 748-1283 811 S. First Artesia, NM 88210 " trict III - (505) 334-6178 Rio Brazos Road مــدc, NM 87410

District IV - (505) 827-7131

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 96052

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: Non-Exempt:	4. Generator Phillips Potrology	
Verbal Approval Received: Yes No No	5. Originating Site ちょうしょう ちょうしゅう ちょうしゅう ちょうしゅう ちょうしゅう ちょうしゅう ちょうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう ちゅうしゅう しゅうしゅう ちゅうしゅう しゅうしゅう	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Key Ewergy	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Masico	
7. Location of Material (Street Address or ULSTR)	"B" Sac 33 TBIN, RGW Rio Arriba Comul	
9. <u>Circle One</u> :		
<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>		
BRIEF DESCRIPTION OF MATERIAL:		
Bottom Sediments & Water From a	. production touk that	
40 hbl	NOV 2001 RECEIVED OIL CON. DIV DIST. 3	
Estimated Volume cy Known Volume (to be entered by the open	erator at the end of the haul) ————— cy	
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TEL	DATE: 11.26.0(  EPHONE NO. 505-632-0615	
(This proce for State Hoo)		
APPROVED BY: APPROVED BY: APPROVED BY: TITLE: Enviv	0/Engr DATE: 11/29/01  DATE: 11-29-1	

# **CERTIFICATE OF WASTE STATUS**

TO

1. Generator Name and Address:	2. Destination Name:	
Phillips Petroleum Co	Envirotech Soil Remed	iation Facility
	Landfarm #2	632-0615
3. Originating Site (name):	Hillton, New Mexico  Location of the Waste (Street a	
3/-6 220		
Attach list of originating sites as appropriate		
	// R //	2 12
Tank Bottom.	s from the "c"	Track
JANK is Being	MOVED	
. MOBERT A. WIRTANES		representative for:
Philling Perasleum (Print Name)	$A_{ij} = A_{ij} A_{ij} + A_{ij} A_{ij}$	do hereby certify the
7 7 7 7 7 7	0.00000	
according to the Resource Conservation and Recov	rery Act (KURA) and Environmenta	I LIGIRCHOU WARINA 2 OF
1988, regulatory determination, the above described	d waste is: (Check appropriate deseife	ation)
1988, regulatory determination, the above described $ imes$ EXEMPT cilfield waste NON-EXE	d waste is: (Chook appropriate deseife EMPT oilfield waste which is non-h	ation)
1988, regulatory determination, the above described $ imes$ EXEMPT cilfield waste NON-EXE	d waste is: (Check appropriate deseife	ation)
1988, regulatory determination, the above described  X EXEMPT cilfield waste NON-EXE analysis of	d waste is: (Check appropriete deseifed MPT cilfield waste which is non-hor by product identification	ation) azardous by characterist
1988, regulatory determination, the above described  X EXEMPT cilfield waste NON-EXE analysis of the exempt or n	d waste is: (Check appropriate deseifed EMPT cilfield waste which is non-hor by product identification non-exempt non-hazardous waste d	ation) azardous by characterist efined above.
1988, regulatory determination, the above described  X EXEMPT cilfield waste NON-EXE analysis of the exempt or n	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste NON-EXE analysis of that nothing has been added to the exempt or not non-exempt or nothing has been added to the following document of the exempt of nothing has been added to the exempt or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt of the following document or nothing has been added to the exempt	d waste is: (Check appropriate deseifed EMPT cilfield waste which is non-hor by product identification non-exempt non-hazardous waste d	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste  NON-EXE  analysis of the total manner of the exempt of the composition of the exempt of the	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste  NON-EXE  analysis of that nothing has been added to the exempt or nothing has been added to the following document of the exempt of the matter of the exempt of the following document of the exempt of the following document of the exempt of the following document of the exempt of the following document of the exempt of the following document of the exempt of the following document of the exempt of the following document of the exempt of t	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste  NON-EXE  analysis of the mountain and that nothing has been added to the exempt or nothing has been added to the following document of the mountain and the mountain and the following document of the mountain and moun	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste NON-EXE analysis of that nothing has been added to the exempt or nothing has been added to the exempt of the exempt of high has been added to the exempt of high has been added to	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste NON-EXE analysis of that nothing has been added to the exempt or nothing has been added to the ex	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste    NON-EXEMPT cilfield waste	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste    NON-EXEMPT cilfield waste	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
EXEMPT cilfield waste    NON-EXEMPT cilfield waste	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):
analysis of an analysis of the exempt or not that nothing has been added to the exempt or not not not not not not not not not not	d waste is: (Check appropriate deseifed EMPT oilfield waste which is non-hor by product identification non-exempt non-hazardous waste of umentation is attached (check appropriate)	ation) azardous by characterist efined above. opriate items):

Estrict I - (505) 393-6161 P.D. Box 1980 Hobbs. NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

APPROVED BY:

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 P'-trict III - (505) 334-6178 Rio Brazos Road (505) 827-7131 c, NM 87410 مدرم

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 96052

istrict IV - (505) 827-7131	Env. JN: _76852
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Donny foust	4. Generator Phillips Patrolau
Verbal Approval Received: Yes ☑ No ☐ LS:45	り の Site で
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Key ENERGY
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State How Majoico
7. Location of Material (Street Address or ULSTR)	"A" Sac 3, T304 R6W.
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accept acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul>	ompanied by necessary chemical analysis to in of origin. No waste classified hazardous by
Estimated Volume 160 bbl cy Known Volume (to be entered by the open	NOV 2001 RECEIVED OIL CON. DIV DIST. 9
SIGNATURE: TITLE: Landfarm M. Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	DATE: 11.26.01  EPHONE NO. 505-632-0615
(This space for State Use)  APPROVED BY: Demy Tom TITLE: Environment	1/#ngr DATE: 11/29/01

New Mexico

Energy Minerals and Natural Resources Department

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:	
Phillips Peta-loum C.		
المرابات المرابية	Envirotech Soil Reme Landfarm #2	diation Facility
	Hilltop, New Mexico	632-0615
3. Originating Site (name):	Location of the Waste (Street	
#202		
31-6 #203		
Attach list of originating sites as appropriate		
4. Source and Description of Waste /		
4. Source and Description of Waste  Two (2) 80 BBI / 04cls	From the 2.8/2	9/232
1/200 (2) 500 200		
R.A. WIRTANES		
1. MIRYANSA		_representative for:
All ( Print Name)	n De Mokum C	
according to the Resource Conservation and Rec	COVERY Act (RCRA) and Emissioner	do hereby certify that
1988, regulatory determination, the above descri		
	EXEMPT oilfield waste which is non-	hazardous by characteristic
analysi	is or by product identification	
and that nothing has been added to the exempt o	ir non-exempt non-hazardoris waste	defined above
	There exemple (normalizations waste	4011104 800 10.
For NON-EXEMPT waste only the following do	ocumentation is attached (check apr	propriate items):
MSDS Information	Other (description	
RCRA Hazardous Waste Analysi	\$	
Chain of Custody		
0111		
Name (Original Signature):	<b>X</b>	
Co cdc C		
Title: Sp EAS Spc/st	:	
10/16/01	1.0	
Date: /9/26/0/	<del></del>	
	1	

Diatrict I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
Diatrict II - (505) 748-1283
811 S. First
Artesia, NM 88210
Provided III - (505) 334-6178
Rio Brazos Road
Aug., NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

C.c., NM 87410 District IV - (505) 827-7131	Env. JN: <u>97057-</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Til-7:4:45	4. Generator EPFS
Verbal Approval Received: Yes V No	5. Originating Site Kutz Saparal
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Ricer
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mercico
7. Location of Material (Street Address or ULSTR)	HZ SECIS, TZQN, RHW STC. NIK
9. Circle One:	
B. All requests for approval to accept non-exempt wastes must be accepted PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned.	n of origin. No waste classified hazardous by
petroleon hydrocarbon contonivato Separator (Sludge).	of Soil From oil/water
20 - Hu	NOV 2001 RECEIVED CILON. DIV DIST. 3
Estimated Volume 320 0615 cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: /L· <b>26·0</b> EPHONE NO. 505-632-0615
APPROVED BY: Length TITLE: Gral	10/Engr DATE: 11/29/01 0915 T DATE: 11-29-1

## **CERTIFICATE OF WASTE STATUS**

Generator Name and Address:	2. Destination Name:		
El Paso Field Services Co.	Envirotech Soil Remediation Facility		
614 Reilly Avenue	Landfarm #2		
Farmington, NM 87401	Hilltop, New Mexico		
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):		
Kutz Separator	North ½ of Section 15, T29N, R11W, San Juan County, New Mexicoi		
Attach list of originating sites as appropriate			
Source and Description of Waste			
Cleaning of hydrocarbons and sand from the no	rth separator pond		
ı, David Bays	representative for:		
(Print Name)			
El Paso Field Service	do horoby portify that		
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)			
	NON-EXEMPT oilfield waste which is non-hazardous by		
X EXEMPT Oilfield waste	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 do	For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):		
MSDS Information Other (description)  RCRA Hazardous Waste Analysis Chain of Custody			
Name (Original Signature):	D Bays		
Title: Principa	al Environmental Scientist		
Date: Novemb	per 7, 2001		

Pistrict I - (505) 393-6161 P. O. Box 1980 Pilobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pirtrict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

Env. JN: 97018

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REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: Non-Exempt: Donny Found 10:31:01	4. Generator NATCO	
Verbal Approval Received: Yes 🔼 No 🔲	5. Originating Site Various	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduiro tedh	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Dow blexico	
7. Location of Material (Street Address or ULSTR)	7855 Southside River Rd. Farmungton, Dew Marsico.	
9. Circle One:		
<ul> <li>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.</li> <li>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.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>		
Sludge generated during cleaning & returbishing oil & gas Exploration & production equipment (toules, delies, separche Novus Awalyzis ATTAchad  Nov 2001  RECE OR CON DIV  Estimated Volume 10 druns cy Known Volume (to be entered by the operator at the end of the haul) — cy		
SIGNATURE: Harlan Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TELE	DATE: 11-19-01  EPHONE NO. 505-632-0615	
APPROVED BY: Demy Kent TITLE: Environ	Engr DATE: 11/16/01	

# **CERTIFICATE OF WASTE STATUS**

·	
1. Generator Name and Address:	2. Destination Name:
Natco,2855 Southside River RD	LANDFHRM #Z
,	Evorotech
	5796 ug Hwy 64
	- tarmy tran
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR): of oil and gas production
Solid generated during the cleaning	of oil and gas production
eqipment, at Natco,s yard.	
equipment, at Nacco, s yard.	
No.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
7. Cource and Description of Waste	nua locations see attatched list
Contaminated dirt and sluge, from vario	And Tocaltollo acc ancaration Tipe.
	• .
	· ':
Jeffren + martinen	representative for:
1, Jeffry & Martinen	Toprosontative
National Tank Co. Farmington	1 hh
	do hereby certify that,
	y Act (RCRA) and Environmental Protection Agency's July
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
XXX EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic
<del></del>	·
analysis or	by product identification
\$ <b>,</b>	
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
C. NON EVERADT was a study following decision	antation in attached Jahanis and anti-
For NON-EXEMPT waste only the following documents	· _
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	<b>2</b> <sub>01</sub>
Chain of Custody	•
	$\mathcal{N}^{-1}$
7 10	
Name (Original Signature):	arts.
The state of the s	A Secretary of the second seco
Title: 34+4 /+15+.	
Title: <u>Slifty Asst.</u> Date: 10-30-01	



## INSPECTION FOR NORM CONTAMINATION

Location: //ateo's Yard.	Date: 10-4-0/
Survey instrument model: <u>Ludlom</u> 3-98	
Item description: 1- Susper.	
Number of pieces:	
Location where items originated: Nation Make	Pack.
Background reading: /3.5 uR/hr	· ·
Highest NORM reading:uR/hr (corrected for l	packground)
Lowest NORM reading: 8.0 uR/hr (corrected for	bækground)
Any samples taken? If so, how many?	
Pieces inspected.	
Pieces found to be free of NORM cor	ntamination. ]
Pieces found to have NORM contam	ination.
Remarks: Tested Baneal From	all four Sides
Remarks: Tested Baneal From  (N,S, Ex W) & Top of D.	essel.
rspecier Jesse Manzananer.	
What is final disposition? Basnel is at to be	moved & disposed of.
released to Whom it may Concern	Date: 18-4-01

### Sheet1

COMPANY Birlington I837 Burlington	LOCATION	JOB NUMBER
	LOCATION	· · · · · · · · · · · · · · · · · · ·
Burlington LOSI		1 / 2 4 4 5 / ~ /
SUF LINE FOOT	22 - 44	73023151
0 1/9/	27-5# 111M	73023368
Burlington	Hurfano 265E	73073740
Burlington	Pagne#8	73023976
Burlaston	Harfanto # 79	73023990
Burlinston	Hart 170 # 178	7302 4580
Burlington	Hyefono HIZZE	73024282
Burlington	It yet and #122E Itubbard 4A	73024455
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		A **
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## **CERTIFICATE OF WASTE STATUS**

	rator Name and Address:	2. Destination Name:
Nat	co,2855 Southside River RD	
	,	
So	nating Site (name): lid generated during the cleaning ipment, at Natco,s yard.	Location of the Waste (Street address &/or ULSTR): of oil and gas production
	h list of originating sites as appropriate	
4. Source Cont	e and Description of Waste aminated dirt and sluge, from vari	ous locations see attatched list.
		· ·
1, <u>Je</u>	ffreg 5/1741-fines	representative for:
Natio	nal Tank Co. Farmington	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
XXX EXE		IPT oilfield waste which is non-hazardous by characteristic by product identification
and that r	nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For <b>ŅON</b>	-EXEMPT waste only the following docum  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Ori	ginal Signature): Juffy J Man	nt)
Date:	0-36-01	

#### Sheet1

ſ

	WASTE SOLIDS	
COMPANY	LOCATION	LOD NI IMPED
		JOB NUMBER
Conneo	SJ287 #19414	73023380
Conoco		73023143
COMOCO	holoury Hed #3	73023142-6206
(01000	THE TAXABLE TO THE TA	73023978
(01000	Jackson 1	73073144(-285
Conoco	madriay 9C#2	73023141
lonoea	28-7 #109	73025529
·		
<u></u>		
		·
,		·
	·	



## INSPECTION FOR NORM CONTAMINATION

Location: //a teas Yand. Date: 10-4-01
Survey instrument model Ludlom 3-98 Last calibrated: 10-19-00
Item description: 1- Bannel
Number of pieces:/
Location where items originated: Natro's Wash Rack
Background reading:uR/hr
Highest NORM reading:uR/hr (corrected for background)
Lowest NORM reading: uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Testel Braner from all four sides
(N, S, E, + W) + Top of Banker
respector: Jesse Manzangles
What is final disposition? The Me is all to be moved a disposed of
Peleased to: Whom it may lowern. Date: 10-4-4

# **CERTIFICATE OF WASTE STATUS**

<u> </u>	Cénantes Norse and Address	I o D at at all
1.	Generator Name and Address:	2. Destination Name:
1	Natco,2855 Southside River RD	
1		
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
1	Solid generated during the cleaning	of oil and gas production
1	egipment, at Natco,s yard.	•
1	· ·	
1		
L_	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	
1	Contaminated dirt and sluge, from vari	ous locations see attatched list.
1	Conteminated also also subsets	
1		
1		
1		
L_		
	Telfre Ing line	
٠,	Obert stand	representative for:
''	Seffrey 5 Martines,  National Tank Co. Farmington	
	National Tank Co. Farmington	do hereby certify that,
acc	National Tank Co. Farmington cording to the Resource Conservation and Recove	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
acc	National Tank Co. Farmington	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
acc 198	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
acc 198	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield wasteNON-EXEMPT	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic
acc 198	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield wasteNON-EXEMPT	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
198 200	National Tank Co. Farmington  cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification
198 200	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield wasteNON-EXEMPT	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification
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acc 198	National Tank Co. Farmington cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or  that nothing has been added to the exempt or no	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.
acc 198	National Tank Co. Farmington  cording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEM  analysis or	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.
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and For	National Tank Co. Farmington Fording to the Resource Conservation and Recove 38, regulatory determination, the above described  EXEMPT oilfield waste  NON-EXEMPT  analysis of  that nothing has been added to the exempt or no  NON-EXEMPT waste only the following docum  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody  me (Original Signature):  Apply 200	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)  APT oilfield waste which is non-hazardous by characteristic by product identification  n-exempt non-hazardous waste defined above.  nentation is attached (check appropriate items):  Other (description):
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### Sheet1

	WASTE SOLIDS	
COMPANY	LOCATION	IOD AU IMPER
COMPANY	LOCATION	JOB NUMBER
Apache	Lest lindicth central	73079111
	14/11/15/11/29	
· · · · · · · · · · · · · · · · · · ·		
	· ·	
	<b>∀.</b>	
,		
		:
	<u> </u>	:
		·



## INSPECTION FOR NORM CONTAMINATION

Location: Mateo's Yand Date: 16	9-4-01
Survey instrument model: <u>Ludlow 3-98</u> Last calibrated:	10-19-00
Item description:	
Number of pieces:	
Location where items originated: Matrois Mash Rock	<u>£</u>
Background reading: 13.5 uR/hr	
Highest NORM reading: 9.0 uR/hr (corrected for background)	•
Lowest NORM reading: 7.0 uR/hr (corrected for background)	
Any samples taken? If so, how many?	
Pieces inspected.	
Pieces found to be free of NORM contamination.	
Pieces found to have NORM contamination.	
Remarks: Tested some all force	Sides.
(N,S,E, + W) + Top of burnel.	· · · · · · · · · · · · · · · · · · ·
respector. Jesse Markenanes.	
What is final disposition? <u>Naudel</u> is ole to be me	ned & Disposed at
eleased to Whom if may loncean Date 10-	7-01



## INSPECTION FOR NORM CONTAMINATION

Location: Matoo's Yand. Date: 10-4-01
Survey instrument model: <u>Ludlor</u> 3-98 Last calibrated: <u>10-19-00</u>
Item description:
Number of pieces:
Location where items originated Matco's Wash Rack.
Background reading:uR/hr
Highest NORM reading:
Lowest NORM reading: & uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
Pieces found to be free of NORM contamination.
Pieces found to have NORM contamination.
Remarks: Tested Sauce from all Four Sides  (NSEAW) + Top of Dance
(NS, E, & W) & Top of Baddel.
repector: Jesse Manzanades.
What is final disposition? Bused is oh to be moved a Disposed of
released to Whom it may ancered Date: 10-4-01

District I - (505) 393-6161 P. Q. Box 1980 Hebbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Purier III - (505) 334-6178 Rio Brazos Road

Diatrics IV - (505) 827-7131

~\_e, NM 87410

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Medico 87505 (505) 827-7131 Form C-138 Originated 8/8/9

> Submit Origina Plus I Cop to appropriate District Office

98065-016

Env. JN:

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🖂	4. Generator Universal Complete
Verbal Approval Received: Yes No No	5. Originating Site Poyate Guld
2. Management Facility Destination Envirotech Soil Remedia.	6. Transporter Environments
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colorado (Soute)
7. Location of Material (Street Address or ULSTR)	Sec 17, T32N, RIIW Caples
9. Circle One:	G(
A. All requests for approval to accept oilfield exempt wastes will be accepted an accept one certificate per job.     B. All requests for approval to accept non-exempt wastes must be accepted.     PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned.	ompanied by necessary chemical analysis to in of crigin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL:	
Soil Contaminated us/ new Mobil.	Pagasus 89 lube oil
	NOV 2001 RECEIVED OILCON DIV DIST. 9
Estimated Volume cy Known Volume (to be entered by the open	erator at the end of the haul) — cy
SIGNATURE: Wasto Management Facility Authorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	fanager DATE: 11 - 7 - 01 EPHONE NO. 505-632-0615
APPROVED BY: Meny Tour TITLE: Environm	DATE: 12/5/01  -6/6dest DATE: 12/11/01

Lieuter I - (505) 393-6161 P 3. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 "trict III - (505) 334-6178 Rio Brazos Road ~\_..c, NM 87410 Dia

APPROVED BY:

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street

Santa Fe, New Mexico 87505 (505) 827-7131

Form C-13 Originated 8/8/9

> Submit Origin. Plus I Čo to appropriat District Offi

DATE:

trict IY - (505) 827-7131	Env. JN: 10065-016
REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator UNI versus
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site
2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2	6. Transporter Edulus
3. Address of Facility Operator 5796 US Highway 64 Farmin ton NM 87401	8. State Colorado (Sould
7. Location of Material (Street Address or ULSTR)	Sec 17, T32N, RIIW Cap
9. <u>Circle One</u> :	G.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be an Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be ac PROVE the material is not-hazardous and the Generator's certifical listing or testing will be approved.</li> </ul>	companied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consign	ned for transport.
Soil Contaminated w/ new Mobil	NOV 2001 RECEIVED CILCON. DIV BIST. S
IGNATURE: Waste Management Facility Authorized Agent Harrian M. Broun	Manager DATE: 11.7.01
YPE OR PRINT NAME: Harlan M. Brown TE	ELEPHONE NO
(This space for State Use)	

TITLE:



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RID BRAZOS ROAD AZTEC, NEW MEXICO 87410 (405) 334-6178 Pax (505)334-6170

GARY E. JOHNSON **GOVERNOR** 

1. Generator Name and Address:

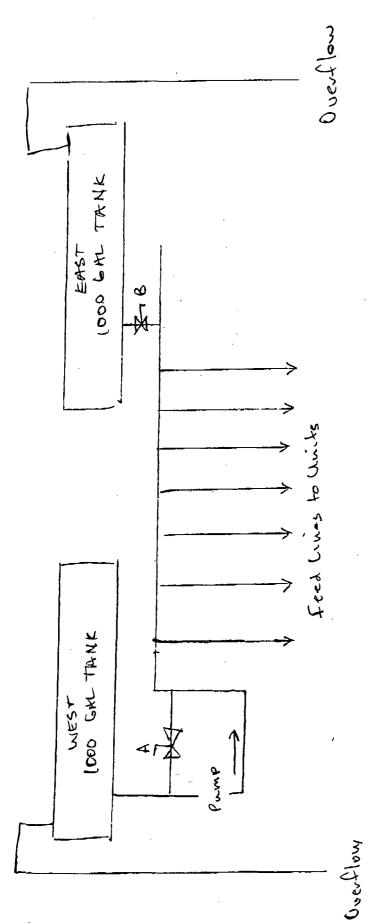
JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

2. Destination Name:

Envirotech Soil Remediation Facility

iduluersal Compression 3440 Morning star Drive	Envirotech Soil Remediation Facility	
3440 Morning star Drive	Landarm #2 Hilltop, New Mexico	
Farmington NM 87401		
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
Countr Gulch Compressor State	on, Section 17, T32N, N.M.P.M.	
	La Plata County, Colorado	
	, ,	
Attech list of originating sites as appropriate 4. Source and Description of Waste	,	
Wake up oil tank.		
1		
Mobil Pegasus 89		
Product # 983904		
1, Chris JoHNSON	representative for:	
(Print Name)	do hereby certify that,	
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,	
1988, regulatory determination, the above described w	vasto is: (Check appropriate classification)	
	· · · · · · · · · · · · · · · · · · ·	
	PT oilfield waste which is non-hazardous by characteristic by product identification	
-		
and that nothing has been added to the exempt or nor	exempt non-hazardous waste defined above.	
For NON-EXEMPT waste the following documentate	ion is attached Johack angroprista Items!	
MSDS Information	Other (description):	
RCRA Hazardous Waste Analysis	<del></del>	
Chain of Custody		
- 10		
This waste is in compliance with Regulated Levels of N	aturally Occurring Radioactive Material (NORM) pursuant	
This waste is in compliance with Regulated Levels of Nto 20 NMAC 3.1 subpart 1403.C and D.	aturally Occurring Radioactive Material (NORM) pursuant	
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	aturally Occurring Radioactive Material (NORM) pursuant	
to 20 NMAC 3.1 subpart 1403.C and D.		
to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):	aturally Occurring Radioactive Material (NORM) pursuant	
to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):		
to 20 NMAC 3.1 subpart 1403.C and D.		



T-104 P 04/13 F-680

5053255027

OY-06-01 11:59am From-UNIVERS\* CAMPRESSION

Approx location of spill TH4 discharge

Coyote Culch Compressor Shed

T-104 P.03

#### Nov-06-01 11:59am From-UNIVERS'

## INCIDENT REPOR.

MPRESSION

Report Date: 11-5	5-01	<u>.                                    </u>	
Injured or persons inve	olved: Cole Robinso	n, Chris Johnson, Toe	Lewis,
Larry Binger,	Envirotech - 50	5-632-0615	
Date, time and location			
11-3-01, 3:00	AM, Coyote Gulc	h Compressor Station	
		•	
□ Near Miss	☐ Property Damage	☐ Vehicle Accident (also requires	.an
☐ Injury Incident (all in medical attention must State First Report of It	t be accompanied by the	insurance packet to be completed Environmental Incident	<i>u)</i>
Clearly and completely	describe the incident:		
Cole Robinson	was trying to pum	poil in an engine at th	۔و
		. There are two oil tan	
		oil from the west tank	
		ne or the units. The	
•	·	en Oil was pumped from	
		hen the east tank was fu	
remaining or 1 c	ame out of the ov	er flow and onto the grow	nd,
Contributing acts or co	ew oil - Wobil Pagas	our flow and outo the grows as 89 Product # 983904 Appr	0x750
		ation. He was asleep in	
,		ATON, FIC WILL WSIEED IN	Truce
Piping is confu	sing,		
What actions will be ta	ken to prevent the occurrenc	ce from happening again?	
		·	
Witnesses To Incident:		t	
Chris Joh	nson	Envioratech	
Reported By:			
Cole Robins	0 h		
Print Name		Sign	Date
Supervisor:  Chvis John Print Name	nson	Sign	- 5-0   Date

5053255027

From-UNIVERS'

F-680

**3E COMPANY** 

Fax: 760-602-8888

1905 Aston Avenue, #100 Carlsbad, CA 92008 Ph: 760-602-8700

**Material Safety Data Sheet Transmittal Form** 

06-Nov-01

Request #: 503597

Processed By: Eli Fonseca

Recipient:

Requester:

**CHRIS JOHNSON** 

ATTN: CHRIS JOHNSON

**Universal Compression 01** Universal Compression

Universal Compression

505-325-5027

Thank you for using 3E's MSDS Paperless Compliance service. This service may eliminate the requirement to maintain MSDS on site. Below is a list of the MSDS you requested. Please verify that the MSDS sheet(s) enclosed/attached match what you have ordered.

3E COMPANY does not develop, prepare, or review the contents of any MSDS; the MSDS is prepared by the manufacturer. The statements, technical information and recommendations contained herein are transmitted without warranty or guarantee of any kind, expressed or implied, by 3E COMPANY. Furthermore, 3E COMPANY assumes no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

If you have any questions regarding the MSDS, or you would like further information on the paperless compliance program, please call 3E Company at (800) 360-3220 or visit us at www.3ecompany.com.

Index3E	Manufacturer	Product Name	UPC	<u>ltem</u>
	ORDERED/Actual	ORDERED/Actual		sku
	والمستوال والمناز والم			

R

The MSDS is attached for the following product(s).

MOBIL PEGASUS 89

98J904

JOBI00077902 /erified Current: 1/25/01

Mobil Oil Corporation

Mobil Pegasus 89

END OF ORDER DETAIL - Request #



605717-00 PAGE 1 OF 7.

#### MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 89

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REPINING

3225 GALLOWS RD. FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information: 800-662-4525 609-224-4644 CHEMTREC: 800-424-9300 202-465-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous. EFFECTS OF OVEREXPOSURE No significant effects expected. EMERGENCY RESPONSE DATA: Amber Liquid. DOT ERG No. - NA

~~~====

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION. Not expected to be a problem.

INGESTION. Not expected to be a problem However, if greater than 1/2 liter (pint) ingested, seek medical attention.

MOBIL PEGASUS 89

PRAGE 2 OF 7

#### 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 runoif 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.

19JUN1999

MOBIL PEGASUS 89

LINGE 3 OF

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, nood 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 Smeet for specific details.

APPEARANCE: Liquid

COLOR: Amber ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: 8.8

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, GSt: 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

19JUN1999

MOBIL PEGASUS 89 Prage 4 OF 7

10. STABILITY AND REACTIVITY

OMADII IMA (MINDAA) II TOMA DEG ) G. ...

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID). Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal cxides

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. (Draiz) 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

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

---SUBCHRONIC TOXICOLOGY (SUMMARY) ---

Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of Lody 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

(Section continued next page)

19JUN1999 ·

MOBIL PEGASUS 89

PPAGE 5 OF 7

screening methods such as the Mobil Modified Ames Test and IP-346.

---SENSITIZATION (SUMMARY) ---

Representative Mobil formulations have not caused skin sensiting 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 in wish the oil off between applications. Used oil from diesel crynes 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 ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be ideal to be

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.

19JUN1999

MOBIL PEGASUS 89

PPAGE , n UF 7

14. TRANSPORT INFORMATION

USA DOT. NOT REGULATED BY USA DOT.

RID/ADR. NOT REGULATED BY RID/ADR.

IMO. NOT REGULATED BY IMO.

IATA. NOT REGULATED BY IATA.

15. REGULATORY INFORMATION 

Governmental Inventory Status: All components comply with TSCA. EINECS/ELINCS, AICS, and DSL.

EU Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Act (SARA) Tille 11 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 CITALULE \_\_\_\_\_ --------- --ZINC (ELEMENTAL ANALYSIS) (0.03%) 7440-66-6 22

PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 22

C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.26%)

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CARC Z1=LA PTV 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 PTK 13=TSCA 5e 18=CA RTK 23=MN PTK 9=OSHA CARC 14=TSCA 6 4-NTP CARC 19=FL RTK 24=NT ETY 5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 25-F% PT: 26-R1 RT!

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

| 19JUN1999                  | MOBIL PEGASUS | 89 | leage / OF 7 |
|----------------------------|---------------|----|--------------|
| 16, OTHER INFORMATION      |               |    |              |
| use: natural gas engine oi | I.L           |    |              |

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN DOBS

Please call the Customer Response Center on 800-662-4525 for Scittlation disclosure.

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 PITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Mobil assumes no responsibility for accuracy of information unless the document is the most current available from an official Mobil distribution system. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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# SOUTHERN UTE INDIAN TRIBE

November 14, 2001

Mr. Harlon Brown EnviroTech 5796 U.S. Hwy 64 Farmington, NM 87401

VIA FACSIMILE: (505) 632-1865

Re: Tribal notification of Transportation of RCRA Non-Exempt, Oilfield Waste from

Coyote Gulch Compressor Station, La Plata County, Colorado

Dear Mr. Brown:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transportation of RCRA non-exempt waste from within Reservation boundaries to New Mexico.

Attached is a certificate of transport authorizing removal of said waste across reservation boundaries. A hard-copy follows via U.S. Postal Service regular mail.

Sincerely,

Fran King Brown,

Environmental Programs Division Head

# Certificate from Southern Ute Indian Tribe Authorizing Removal of RCRA Non-Exempt, Non-Toxic, Oilfield Waste from Its Jurisdiction

I have reviewed the information concerning the Non-Exempt, Non-toxic oilfield waste material (37 cubic yards of soil contaminated with 500 gallons of unused Mobil Pegasus oil) from the Coyote Gulch Compressor Station located in La Plata County, Colorado in section 17, T32N, R11W. Compressors are operated by Universal Compression, 3440 Morningstar Drive, Farmington, NM 87401. I agree that by its description this waste is non-hazardous as defined by the Resource Conservation and Recovery Act (RCRA) and by my jurisdiction's rules, regulations or statutes.

- The material is Non-Exempt oilfield waste.
- The material is Non-hazardous by regulatory definition.

#### THEREFORE:

As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed for treatment to EnviroTech Soil Remediation Facility Landfarm #2, Hilltop, New Mexico.

Transportation of this waste may be subject to other state and Federal laws. The Southern Ute Indian Tribe accepts no liability associated with the disposal of this waste.

Name: Fran King Brown Title: Environmental Programs Division Head

Signature: Franking Brown Date: 11-14-01

Agency:

Southern Ute Indian Tribe

Address:

P. O. Box 737, Ignacio, CO 81137

Phone:

(970) 563-0135 fax 563-0384

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 "'-trict III - (505) 334-6178 Rio Brazos Road

c, NM 87410 مدرم

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

| urict IV - (505) 827-7131                                                                                                                                                                                                                                                                                                                                                                                    | Env. JN: <u>920(8-</u>                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| REQUEST FOR APPROVAL TO ACCE                                                                                                                                                                                                                                                                                                                                                                                 | PT SOLID WASTE                                                                                  |
| 1. RCRA Exempt: Non-Exempt: 10.31-0(                                                                                                                                                                                                                                                                                                                                                                         | 4. Generator Navious Location                                                                   |
| Verbal Approval Received: Yes No No                                                                                                                                                                                                                                                                                                                                                                          | 5. Originating Site NAてCO                                                                       |
| 2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2                                                                                                                                                                                                                                                                                                                              |                                                                                                 |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401                                                                                                                                                                                                                                                                                                                                      | 8. State New Mexico                                                                             |
| 7. Location of Material (Street Address or ULSTR)                                                                                                                                                                                                                                                                                                                                                            | 7855 Southside River Rd<br>Farmyton, Davi Makico.                                               |
| 9. Circle One:                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                 |
| <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be a Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be a PROVE the material is not-hazardous and the Generator's certifical listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consignation.</li> </ul> | accompanied by necessary chemical analysis to ation of origin. No waste classified hazardous by |
| BRIEF DESCRIPTION OF MATERIAL:                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                 |
| sludge & solids goverated during cla<br>production againment (TANKS, d'élig                                                                                                                                                                                                                                                                                                                                  | earing & refarbishing oil & g                                                                   |
| production as garipment ( (4 a)ks, derig                                                                                                                                                                                                                                                                                                                                                                     | Nov 2001 SECTIVED DIST. 3 DIV                                                                   |
| Estimated Volume 10 drum cy Known Volume (to be entered by the                                                                                                                                                                                                                                                                                                                                               | operator at the end of the haul) cy                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                 |
| SIGNATURE: Harland Facility Authorized Agent  Waste Management Facility Authorized Agent                                                                                                                                                                                                                                                                                                                     | <del></del>                                                                                     |

(This space for State Use) APPROVED BY: APPROVED BY

Danny Foust. 10.31.01 8:50

## **CERTIFICATE OF WASTE STATUS**

| 1.       | Generator Name and Address: Natco, 2855 Southside River RD        | 2. Destination Name:                                                                    |
|----------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|          |                                                                   |                                                                                         |
|          |                                                                   |                                                                                         |
| 3.       | Originating Site (name): Solid generated during the cleaning      | Location of the Waste (Street address & Jor ULSTR):  g of oil and gas production        |
|          | eqipment, at Natco,s yard.                                        |                                                                                         |
|          | Attach list of originating sites as appropriate                   |                                                                                         |
| 4.       | Source and Description of Waste                                   |                                                                                         |
|          | Contaminated dirt and sluge, from var.                            | ious locations see attatched list.                                                      |
|          |                                                                   |                                                                                         |
| ĺ        |                                                                   |                                                                                         |
|          |                                                                   |                                                                                         |
|          |                                                                   |                                                                                         |
|          |                                                                   |                                                                                         |
|          |                                                                   |                                                                                         |
|          | Jeffrey Sillerfiner                                               | representative for:                                                                     |
|          | (Print Name)                                                      |                                                                                         |
|          | National Tank Co. Farmington                                      | do hereby certify that,                                                                 |
|          |                                                                   | ary Act (RCRA) and Environmental Protection Agency's July,                              |
| 30       | 8, regulatory determination, the above described                  | Waste is: (Check appropriate classification)                                            |
| <u> </u> |                                                                   | MPT oilfield waste which is non-hazardous by characteristic r by product identification |
| nd ·     | that nothing has been added to the exempt or no                   | on-exempt non-hazardous waste defined above.                                            |
|          | MON EVENIDE                                                       |                                                                                         |
| or i     | NON-EXEMPT waste only the following documents on MSDS Information |                                                                                         |
|          | RCRA Hazardous Waste Analysis                                     | Other (description):                                                                    |
|          | Chain of Custody                                                  |                                                                                         |
|          |                                                                   |                                                                                         |
|          |                                                                   |                                                                                         |
|          | 011 0 00                                                          | - 4                                                                                     |
| lam      | e (Original Signature):                                           | at the second                                                                           |
|          | Sect 1- 1000                                                      | €/                                                                                      |
| ıtla:    | Sqsty Asst.                                                       |                                                                                         |
| nte:     | 10-30-01                                                          |                                                                                         |
| 910      | 10 20 01                                                          |                                                                                         |



## INSPECTION FOR NORM CONTAMINATION

| Location: //s fcos /sed. Date: 18-9-01                                 |
|------------------------------------------------------------------------|
| Survey instrument model: Ludlum 3-98 Last calibrated: 10-19-00         |
| Item description:                                                      |
| Number of pieces:/                                                     |
| Location where items originated: Natro's Whish Rack                    |
| Background reading:                                                    |
| Highest NORM reading:uR/hr (corrected for background)                  |
| Lowest NORM reading: uR/hr (corrected for background)                  |
| Any samples taken? If so, how many?                                    |
| Pieces inspected.                                                      |
| Pieces found to be free of NORM contamination.                         |
| Pieces found to have NORM contamination.                               |
| Remarks: Testal Bassel from all four sides                             |
| Remarks: Testal Banel from all four sides  (N,S,E, +W) + Top of Bearel |
|                                                                        |
| rspecier: Jesse Manzaneles.                                            |
| What is final disposition? Ik Med is all to be moved - Bigant ax       |
| eleased to Elhon it may loncolon. Date. 18-4-4                         |

## Sheet1

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|--------------------------------------------------------------------|------------------|---------|
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| 64556086                                                           | 107-1-1801       | 050007  |
| 12154001                                                           | 67 + L-86        | 020007  |
| CO2-15A/CC08/                                                      | 1 COSTAIN        | 02000)  |
| 13156056<br>592-75156056<br>81586056<br>50007-25156056<br>53156056 | C' PALITARIOIDIA | 030007  |
| 2002-7615-056                                                      | E# POFINATION    | 07000   |
| 6000                                                               | WD(1+1-8015)     | 030007  |
| 08 28 2087                                                         | 1001# L8055      | 020003  |
| 10B NUMBER                                                         | ГОСАПОИ          | COMPANY |
| 638/1/1/1901                                                       | HOLLADOI         | ANGIOS  |
|                                                                    | WASTE SOLIDS     |         |
|                                                                    | POLICO TTOAN     |         |

Page 1

# **CERTIFICATE OF WASTE STATUS**

| 1. Generator Name and Address: Natco, 2855 Southside River RD                                                               | 2. Destination Name:                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 3. Originating Site (name):  Solid generated during the cleaning eqipment, at Natco,s yard.                                 | Location of the Waste (Street address &/or ULSTR): g of oil and gas production                                                  |
| Attach list of originating sites as appropriate  4. Source and Description of Waste  Contaminated dirt and sluge, from vari | ious locations see attatched list.                                                                                              |
| 1, Seffrey 5 Martines,                                                                                                      | representative for:                                                                                                             |
| 1308, regulatory determination, the above described                                                                         |                                                                                                                                 |
|                                                                                                                             | MPT oilfield waste which is non-hazardous by characteristic by product Identification exampt non-hazardous waste defined above. |
| For NON-EXEMPT waste only the following docum  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody              | nentation is ettached (check appropriate items): Other (description):                                                           |
| Name (Original Signature): Jeffy J. Ma<br>Title: 59547 Asst.                                                                | ut                                                                                                                              |
| Date: 10-30-01                                                                                                              |                                                                                                                                 |



# INSPECTION FOR NORM CONTAMINATION

| Location: Matoo's Yand. Date: 10-4-01                                        |
|------------------------------------------------------------------------------|
| Survey instrument model: <u>Ludlum 7-98</u> Last calibrated: <u>10-19-00</u> |
| Item description:                                                            |
| Number of pieces:                                                            |
| Location where items originated: Mark Pack.                                  |
| Background reading: /2 uR/hr                                                 |
| Highest NORM reading:                                                        |
| Lowest NORM reading:                                                         |
| Any samples taken? If so, how many?                                          |
| Pieces inspected.                                                            |
| Pieces found to be free of NORM contamination.                               |
| Pieces found to have NORM contamination.                                     |
|                                                                              |
| Remarks: Testal Bassel from all Four Sides  (NS, E, 2 W) + Top of Bassel     |
| S N S, E, S W S T / SQ V J DAME!                                             |
|                                                                              |
| inspector. Jesse Massanades                                                  |
| What a final disposition Based is of to be moved a Disposed -                |
| Pelesses to When it may anseren Des 18-4-01                                  |



## INSPECTION FOR NO,RM CONTAMINATION

| Location: Mateo's Vald                         | Date: 18-4-01             |
|------------------------------------------------|---------------------------|
| Survey instrument model: Ludlum 3-98           | Last calibrated: 10-19-00 |
| Item description: 1- Daksel                    |                           |
| Number of pieces:                              |                           |
| Location where items originated: Marko's 12    | Park Rock.                |
| Background reading: uR/hr                      |                           |
| Highest NORM reading: 9.0 uR/hr (corrected for | background)               |
| Lowest NORM reading: 7-0 uR/hr (corrected for  | background)               |
| Any samples taken? If so, how many?            |                           |
| Pieces inspected.                              |                           |
| Pieces found to be free of NORM co             | ntamination. :            |
| Pieces found to have NORM contam               | ination.                  |
|                                                |                           |
| Remarks: Testal succes from all                | fore Sides.               |
|                                                |                           |
|                                                |                           |
| inspector Jesse Markenanes                     |                           |
| What a final disposition   Market is ofe -     | to be moved a Disposed -+ |
| Peleases to Whom if may loacean                | Date 18-4-01              |

## Cheer?

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| JOB NUMBER | LOCATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COMPANY  |
| 11156086   | West lindicth central                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 742404   |
|            | Jack hettery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
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t aged

# **CERTIFICATE OF WASTE STATUS**

| 1. Generator Name and Address: Natco, 2855 Southside River RD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2. Destination Name:                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Originating Site (name):  Solid generated during the cleaning eqipment, at Natco, s yard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Location of the Waste (Street address &/or ULSTR); ng of oil and gas production                                                                          |
| Attach list of originating sites as appropriate  4. Source and Description of Waste  Contaminated dirt and sluge, from var                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | rious locations see attatched list.                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                          |
| National Tank Co. Farmington  according to the Resource Conservation and Recording to the Resource Conservation | representative for:  do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, ad waste is: (Check appropriate classification) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EMPT oilfield waste which is non-hazardous by characteristic 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 docs  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | umentation is attached (check appropriate items): Other (description):                                                                                   |
| Name (Original Signature): Jeff G. 111 Title: 59ffy Ast.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Nat                                                                                                                                                      |
| Title: 39+4 A=st.  Date: 10-30-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                          |
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## INSPECTION FOR NORM CONTAMINATION

| Location: Mateo's Vand. Date: 10-4-01                            |
|------------------------------------------------------------------|
| Survey instrument model: Ludlum 3-98 Last calibrated: 10-19-00   |
| Item description:                                                |
|                                                                  |
| Number of pieces:                                                |
| Location where items originated: Nation Wal Rock                 |
| Background reading: 13.5 uR/hr                                   |
| Highest NORM reading:uR/hr (corrected for background)            |
| Lowest NORM reading: 8.0 uR/hr (corrected for background)        |
| Any samples taken? If so, how many?                              |
| Pieces inspected.                                                |
| Pieces found to be free of NORM contamination.                   |
| Pieces found to have NORM contamination.                         |
|                                                                  |
| Remarks: Testal Baneal From all four Steles                      |
| (N,S, E + 20) & Top of Bassel.                                   |
|                                                                  |
| receptor Desce Managanana.                                       |
| that a training position . Bossel is at the moved of disposed of |
| eleased to Whom it may loncear Date 18-4-01                      |

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| JOB NUMBER | ГОСРПОИ        | COMPANY         |
|            |                |                 |
|            | WASTE SOLIDS   |                 |

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Dieric I - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 "-trict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

c, NM 87410ء۔۔۔م

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

(505) 827-7131 Env. JN:

| REQUEST FOR APPROVAL TO ACCEPT                                                                                                                                                                                                                                                                                                                                                                                                                   | SOLID WASTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. RCRA Exempt: Non-Exempt: Uenur Foust.                                                                                                                                                                                                                                                                                                                                                                                                         | 4. Generator WFS-LA Java D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Verbal Approval Received: Yes ☑ No ☐                                                                                                                                                                                                                                                                                                                                                                                                             | 5. Originating Site 29-6 #3 CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2                                                                                                                                                                                                                                                                                                                                                                 | 6. Transporter Kiey ENERGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401                                                                                                                                                                                                                                                                                                                                                                          | 8. State Now Marico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 7. Location of Material (Street Address or ULSTR)                                                                                                                                                                                                                                                                                                                                                                                                | NWNE Sec 14, TZ9N, R6W<br>RID Arriba County. NW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| <ul> <li>9. Circle One:</li> <li>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.</li> <li>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</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned.                                                                                                                                                                                                                                                                                                                               | d for transport.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Battom Sediments & worth from a tank  Estimated Volume 80 66 cy Known Volume (to be entered by the open                                                                                                                                                                                                                                                                                                                                          | NOV 2001 BEST ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON CO. ON |  |
| SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL                                                                                                                                                                                                                                                                                                                                                   | DATE: 11:(.o.(<br>EPHONE NO. 505-632-0615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| APPROVED BY: Lengt Tout TITLE: Envir                                                                                                                                                                                                                                                                                                                                                                                                             | 0/Engr DATE: 11/15/01  DATE: 11-15-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |

# 2/ 2

Donny Foust November 1, 2001

13:50

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO B7410

CABINET SECRETARY

(508) 334-5178 Fax (505)334-6170

JENNIFER A. SALISBURY

# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR

1. Generator Name and Address:

**CERTIFICATE OF WASTE STATUS** 

2. Destination Name:

| MICH WAS LEED SA(N) CES                                                                                       | Envirotech Soil Remediation Facility                                                                                              |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 158 CR 4900                                                                                                   | Landarm #2                                                                                                                        |
| BLOOMFIELD, NM 87401                                                                                          | Hilltop, New Mexico                                                                                                               |
| 3. Originating Site (name):                                                                                   | Location of the Waste (Street address &/or ULSTR):                                                                                |
| 29-6#3 CDP                                                                                                    | NW DE Sac 14, TZ9N R 6 W ROD Auriba Comby                                                                                         |
| Attach list of originating sites as appropriate                                                               | <u> </u>                                                                                                                          |
| 4. Source and Description of Waste                                                                            |                                                                                                                                   |
| PIPEUNE LIQUIDS,                                                                                              | / MODUCTION SOAP                                                                                                                  |
| I, MARK BARETA (Print Name)                                                                                   | representative for:  do hereby certify that,                                                                                      |
|                                                                                                               | MPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. |
| For NON-EXEMPT waste the following documenta  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody |                                                                                                                                   |
| This waste is in compliance with Regulated Levels of N<br>to 20 NMAC 3.1 subpart 1403.C and D.                | Naturally Occurring Radioactive Material (NORM) pursuant                                                                          |
| Name (Original Signature):                                                                                    | 大                                                                                                                                 |
| ritle: Stnior Environdenta                                                                                    | z strimiss                                                                                                                        |
| Date:                                                                                                         |                                                                                                                                   |
|                                                                                                               | ·                                                                                                                                 |

Diatrict J - (505) 393-6161 P. C. Box (980) Hobbs, N. 68241-1980 District 11 - (505) 748-1283 811 S. First Artesia, NM 88210 n'-trict III - (505) 334-6178 Rio Brazos Road c, NM 87410.

<u> District IV - (505) 827-7131 '</u>

New Mexico Energy Minerals and Natural Resources Department VED Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

JAN 2 9 2002

Environmental Bureau Oil Conservation Division Env. JN:

Submit Original Plus I Copy to appropriate

District Office

Form C-138

Originated 8/8/95

| HEQUEST FUR APPROVAL TO ACCEPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SOLID WAS TE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. RCRA Exempt: Non-Exempt: 🔼                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4. Generator GiANT Refruing  5. Originating Site Refinery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Verbal Approval Received: Yes 🔲 No 🔀                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5. Originating Site Refinery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6. Transporter الاصب                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. State New Whorpico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 7. Location of Material (Street Address or ULSTR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | #50 County Rd 4990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 9. Circle One:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bloomfield., Nu 87413                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
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| BRIEF DESCRIPTION OF MATERIAL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| PROCESS vater studige.  JAN 2003  DATE STUDIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | JAN 2002 RECEIVED OL CON. DIV DIST. 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Estimated Volume Sold Known Volume (to be entered by the ope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | rator at the end of the haul) ————————————————————————————————————                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| SIGNATURE: Harlan M. Brown  TITLE: Landfarm Ma  Waste Management FacilityAuthorized Agent  Harlan M. Brown  TELE                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DATE: 10 - 26 - 01 - 25 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - 01 - 26 - |  |
| APPROVED BY: Muty Mh. TITLE: Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |

P. O. E Hobl Dist 31 P. S. Fi.

Irresia, NM 88210

5) 393-6161 6241-1980 505) 748-1283

"trict III - (505) 334-6178
 Rio Brazos Road
 ...c, NM 87410

District IV - (505) 827-7131

APPROVED BY:

## New Mexico

## Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Env. JN:

DATE:

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

| REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| 1. RCRA Exempt: Non-Exempt:                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4. Generator GiANT Refruing                                        |  |
| Verbal Approval Received: Yes No 🔀                                                                                                                                                                                                                                                                                                                                                                                                                            | 5. Originating Site Refinery                                       |  |
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| BRIEF DESCRIPTION OF MATERIAL:                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                    |  |
| PROCESS vater slundage.  Supporting do commention  W/ (leng disposare  Processor  On con prov  District Strugger  Hung                                                                                                                                                                                                                                                                                                                                        |                                                                    |  |
| Estimated Volume Solul cy Known Volume (to be entered by the ope                                                                                                                                                                                                                                                                                                                                                                                              | rator at the end of the haul) ———————————————————————————————————— |  |
| SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TELI                                                                                                                                                                                                                                                                                                                                                               | DATE: 6 - 0   505-632-0615                                         |  |
| APPROVED BY: DEMY STITLE: Envirof                                                                                                                                                                                                                                                                                                                                                                                                                             | Engr DATE:                                                         |  |

TITLE:



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Of Conservation Division Aztec District Office 1000 RIO BRAZOS ROAD Aztec, New Mexico 87410 (505) 334-6178 Fam (305)334-6170

GARY E. JOHNSON

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

|                 |                                                                                 | <u> </u>                                                                         |
|-----------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1.              | Generator Name and Address:                                                     | 2. Destination Name:                                                             |
| 1               | Giant Refining Company                                                          | Envirotech Soil Remediation Facility                                             |
|                 | #50 CR 4990<br>Bloomfield, NM 87413                                             | Landarm #2<br>Hilltop, New Mexico                                                |
|                 |                                                                                 |                                                                                  |
| 3.              | Originating Site (name):                                                        | Location of the Waste (Street address &/or ULSTR):                               |
|                 | Giant Refining Company                                                          | #50 CR 4990                                                                      |
| 1               | #50 CR 4990<br>Bloomfield, NM 87413                                             | Bloomfield, NM 87413                                                             |
|                 | ,                                                                               |                                                                                  |
|                 | Attach list of originating sites as appropriate Source and Description of Waste |                                                                                  |
|                 | •                                                                               | tower during shutdown for repairs                                                |
| 1               | Could tower studge it out creating                                              | tower during stateown for repairs                                                |
| l               |                                                                                 |                                                                                  |
| ŀ               |                                                                                 |                                                                                  |
|                 |                                                                                 |                                                                                  |
|                 |                                                                                 | •                                                                                |
| 1,              | Barry Holman                                                                    | representative for:                                                              |
|                 | (Print Name)                                                                    |                                                                                  |
| SCC01           | Giant Refining Company                                                          | do hereby certify that, y.Act.(RCRA) and Environmental Protection Approx's July, |
| 1988            | , regulatory determination, the above described t                               | Waste is: (Check appropriate classification)                                     |
|                 |                                                                                 |                                                                                  |
|                 |                                                                                 | PT oilfield waste which is non-hazardous by characteristic                       |
|                 | - analysis or                                                                   | by product identification                                                        |
| and ti          | hat nothing has been added to the exempt or nor                                 | n-exempt non-hazardous waste defined above.                                      |
|                 |                                                                                 |                                                                                  |
| For N           | ON-EXEMPT waste the following documentar                                        |                                                                                  |
|                 | XX MSDS Information RCRA Hazardous Waste Analysis                               | Other (description):                                                             |
|                 | Chain of Custody                                                                |                                                                                  |
| ~~~             |                                                                                 |                                                                                  |
|                 |                                                                                 |                                                                                  |
|                 |                                                                                 | aturally Occurring Radiosctive Material (NORM) pursuant                          |
| ia 20           | NMAC 3.1 subpart 1403.C and D.                                                  |                                                                                  |
|                 |                                                                                 |                                                                                  |
| Vame            | e (Original Signature):                                                         |                                                                                  |
|                 | 7                                                                               |                                                                                  |
|                 | _ , , , , , , , , , , , , , , , , , , ,                                         |                                                                                  |
| litle:          | Environmental Manager                                                           |                                                                                  |
|                 | 0.405.404                                                                       |                                                                                  |
| Title:<br>Date: | 0.405.404                                                                       |                                                                                  |

Manufacturer : NALCO Re on Date : 09-06-1996

NALCO,

MATERIAL SAFETY DATA SHEET

PRODUCT

NALSPERSE 7348 BIODISPERSANT

EMERGENCY TELEPHONE NUMBER

MEDICAL (708)-920-1510-(24-HOURS)

## SECTION 1 PRODUCT IDENTIFICATION

Internal ID : 000097 File Name : 000097

TRADE NAME: NALSPERSE 7348 BIODISPERSANT

DESCRIPTION: A POLYGLYCOL

NFPA 704M/HMIS RATING:

0/1 HEALTH

1/1 FLAMMABILITY

0/0 REACTIVITY

0 OTHER

0=INSIGNIFICANT

1=SLIGHT

2=MODERATE

3=HIGH

4=EXTREME

## SECTION 2 HAZARDOUS INGREDIENTS

OUR HAZARD EVALUATION OF THE INGREDIENT(S) UNDER OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 HAS FOUND NONE OF THE INGREDIENT(S) HAZARDOUS.

## SECTION 3 PRECAUTIONARY LABEL INFORMATION

#### CAUTION:

MAY CAUSE IRRITATION TO SKIN AND EYES. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TAKE INTERNALLY.

EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. DO NOT REUSE CONTAINER UNLESS PROPERLY RECONDITIONED.

#### SECTION 4 FIRST AID INFORMATION

EYES: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN.

SKIN: FLUSH WITH WATER FOR 15 MINUTES.

INGESTION: DO NOT INDUCE VOMITING. GIVE WATER. CALL A PHYSICIAN.

ar er: 3 Re sion Date: 09-06-1996 Internal ID : 000097 File Name : 000097

INHALATION: REMOVE TO FRESH AIR. TREAT SYMPTOMS. CALL A PHYSICIAN.

NOTE TO PHYSICIAN:

BASED ON THE INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITION.

#### CAUTION:

IF UNCONSCIOUS, HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITING OR GIVE WATER

## SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN

EYE CONTACT: MAY CAUSE IRRITATION WITH PROLONGED CONTACT.

SKIN CONTACT: MAY CAUSE IRRITATION WITH PROLONGED CONTACT.

SYMPTOMS OF EXPOSURE:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY SYMPTOMS FROM EXPOSURE NOT PREVIOUSLY MENTIONED.

AGGRAVATION OF EXISTING CONDITIONS:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

#### SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES:

ACUTE TOXICITY STUDIES HAVE BEEN CONDUCTED ON THIS PRODUCT. THE RESULTS ARE SHOWN BELOW.

ACUTE ORAL TOXICITY (ALBINO RATS): LD50 = 2,229 MG/KG

95% CONFIDENCE LIMIT = 1,400 - 3,085 MG/KG

TOXICITY RATING: MODERATELY TOXIC

### COMMENTS:

PHARMOCOTOXIC SIGNS NOTED FOLLOWING PRODUCT ADMINISTRATION INCLUDED ANOREXIA, DIARRHEA, DECREASED ACTIVITY, SALIVATION, AND ATAXIA. ALL SURVIVING ANIMALS APPEARED NORMAL 72-HOURS POST DOSING. DEATHS OCCURRED 24-48 HOURS AFTER ADMINISTRATION OF THE TEST ARTICLE.

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):

SKIN IRRITATION INDEX DRAIZE RATING: 0.57/8.0 SLIGHTLY IRRITATING

#### COMMENTS:

APPLICATION OF 0.5 ML TO A 6 CM2 SITE ON THE SHAVEN BACK OF EACH OF A GROUP OF SIX ALBINO RABBITS (4-HOUR OCCLUDED CONTACT) RESULTED IN VERY MILD REDNESS AND NO SWELLING. AT THE END OF 72-HOURS, ALL SITES HAD RETURNED TO NORMAL.

Manufacturer : NALCO Revision Date : 09-06-1996 Internal ID : 000097 File Name : 000097

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):

EXE IRRITATION INDEX DRAIZE RATING: 2.7/110.0 MINIMALLY IRRITATING

COMMENTS:

INSTILLATION OF 0.1 ML INTO THE CONJUNCTIVAL SAC OF ONE EYE OF EACH OF A GROUP OF SIX ALBINO RABBITS PRODUCED VERY SLIGHT REDNESS ONE HOUR AFTER INSTILLATION. BY THE END OF 24-HOURS, ALL EYES HAD ESSENTIALLY RETURNED TO NORMAL.

HUMAN HAZARD CHARAGTERIZATION:

BASED ON OUR HAZARD CHARACTERIZATION, THE POTENTIAL HUMAN HAZARD IS: LOW

## SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: CLEAR

FORM: LIQUID

ODOR: NONE

DENSITY: 8.5 LBS/GAL.

SOLUBILITY IN WATER: INSOLUBLE

SPECIFIC GRAVITY: 1.00-1.04 @ 68 DEGREES F ASTM D-1298

PH (AT 2.5%) = 5.0 - 7.5

VISCOSITY: 273 CPS-@ 78 DEGREES F ASTM D-2983

FREEZE POINT: NONE ASTM D-1177

FLASH POINT: GREATER THAN 200 DEGREES F (PMCC) ASTM D-93

VAPOR PRESSURE: LESS THAN 0.01MM HG @ 68 DEGREES F ASTM D-323

VOLATILE ORGANIC

COMPOUND (VOC): 0.06 LBS/GAL. EPA METHOD 24

NOTE: THESE PHYSICAL PROPERTIES ARE TYPICAL VALUES FOR THIS PRODUCT.

## SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: GREATER THAN 200 DEGREES F (PMCC) ASTM D-93

.....

### EXTINGUISHING MEDIA:

BASED ON THE NFPA GUIDE, USE DRY CHEMICAL, FOAM, CARBON DIOXIDE OR OTHER EXTINGUISHING AGENT SUITABLE FOR CLASS B FIRES. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE. FOR LARGE FIRES, USE WATER SPRAY OR FOG, THOROUGHLY DRENCHING THE BURNING MATERIAL.

UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

Manufacturer: NALCO Resion Date: 09-06-1996 Internal ID: 000097 File Name: 000097

## SECTION 9 REACTIVITY INFORMATION

### INCOMPATIBILITY:

AVOID CONTACT WITH STRONG OXIDIZERS (EG. CHLORINE, PEROXIDES, CHROMATES, NITRIC ACID, PERCHLORATES, CONCENTRATED OXYGEN, PERMANGANATES) WHICH CAN GENERATE HEAT, FIRES, EXPLOSIONS AND THE RELEASE OF TOXIC FUMES.

## THERMAL DECOMPOSITION PRODUCTS:

IN THE EVENT OF COMBUSTION CO, CO2 MAY BE FORMED. DO NOT BREATHE SMOKE OR FUMES. WEAR SUITABLE PROTECTIVE EQUIPMENT.

## SECTION 10 PERSONAL PROTECTION EQUIPMENT

### RESPIRATORY PROTECTION:

RESPIRATORY PROTECTION IS NOT NORMALLY NEEDED SINCE THE VOLATILITY AND TOXICITY ARE LOW. IF SIGNIFICANT VAPORS, MISTS OR AEROSOLS ARE GENERATED, WEAR A NIOSH APPROVED OR EQUIVALENT RESPIRATOR.

FOR LARGE SPILLS, ENTRY INTO LARGE TANKS, VESSELS OR ENCLOSED SMALL SPACES WITH INADEQUATE VENTILATION, A POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

#### **VENTILATION:**

GENERAL VENTILATION IS RECOMMENDED. ADDITIONALLY, LOCAL EXHAUST VENTILATION IS RECOMMENDED WHERE VAPORS, MISTS OR AEROSOLS MAY BE RELEASED.

## PROTECTIVE EQUIPMENT:

USE IMPERMEABLE GLOVES AND CHEMICAL SPLASH GOGGLES WHEN ATTACHING FEEDING EQUIPMENT, DOING MAINTENANCE OR HANDLING PRODUCT. EXAMPLES OF IMPERMEABLE GLOVES AVAILABLE ON THE MARKET ARE NEOPRENE, NITRILE, PVC, NATURAL RUBBER, VITON, AND BUTYL (COMPATIBILITY STUDIES HAVE NOT BEEN PERFORMED).

THE AVAILABILITY OF AN EYE WASH FOUNTAIN AND SAFETY SHOWER IS RECOMMENDED.

IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING AND THOROUGHLY WASH THE AFFECTED AREA. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

## HUMAN EXPOSURE CHARACTERIZATION:

BASED ON NALCO'S RECOMMENDED PRODUCT APPLICATION AND OUR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT, THE POTENTIAL HUMAN EXPOSURE IS: MODERATE.

## SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (800) I-M-ALERT OR (800) 462-5378.

SPILL CONTROL AND RECOVERY:

#### SMALL LIQUID SPILLS:

CONTAIN WITH ABSORBENT MATERIAL, SUCH AS CLAY, SOIL OR ANY COMMERCIALLY

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AVAILABLE ABSORBENT. SHOVEL RECLAIMED LIQUID AND ABSORBENT INTO RECOVERY OR SALVAGE DRUMS FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.

## LARGE LIOUID SPILLS:

DIKE TO PREVENT FURTHER MOVEMENT AND RECLAIM INTO RECOVERY OR SALVAGE DRUMS OR TANK TRUCK FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.

#### DISPOSAL:

IF THIS PRODUCT BECOMES A WISTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS—WASTE AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR-261, SINCE IT DOES NOT HAVE THE CHARACTERISTICS OF SUBPART C, NOR IS IT LISTED UNDER SUBPART D.

AS A NON-HAZARDOUS LIQUID WASTE, IT SHOULD BE SOLIDIFIED WITH STABILIZING AGENTS (SUCH AS SAND, FLY ASH, ÖR CEMENT) SO THAT NO FREE LIQUID REMAINS BEFORE DISPOSAL TO AN INDUSTRIAL WASTE LANDFILL. A NON-HAZARDOUS LIQUID WASTE CAN ALSO BE INCINERATED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

## SECTION 12 ENVIRONMENTAL INFORMATION

CHEMICAL OXYGEN DEMAND COD : 2,000,000 MG/L

TOTAL ORGANIC CARBON (TOC): 540,000 Mg/L

# AOUATIC DATA:

- 96 HOUR STATIC ACUTE LC50 TO BLUEGILL SUNFISH = GREATER THAN 1,000 PPM
- 96 HOUR STATIC ACUTE LCSO TO RAINBOW TROUT = GREATER THAN 1,000 MG/L
- 96 HOUR NO OBSERVED EFFECT CONCENTRATION IS 320 Mg/L BASED ON NO MORTALITY
- OR ABNORMAL EFFECTS.

LTOXICITY RATING: ESSENTIALLY NON-TOXIC

- 48 HOUR STATIC ACUTE LOSO TO DAPHNIA MAGNA = GREATER THAN 1,000 MG/L
- 48 HOUR NO OBSERVED EFFECT CONCENTRATION IS 180 MG/L BASED ON NO MORTALITY
- OR ABNORMAL EFFECTS.

TOXICITY RATING: ESSENTIALLY NON-TOXIC

96 HOUR STATIC ACUTE LC50 TO CHANNEL CATFISH, LARGEMOUTH BASS, GRASS SHRIMP, SHORE CRABS = GREATER THAN 1,000 PPM

96 HOUR STATIC ACUTE LC50 TO EASTERN OYSTERS = 307 PPM

- 96 HOUR STATIC ACUTE LC50 TO QUAHOG CLAMS = 567 PPM
- 48 HOUR EC50 TO CERIODAPHNIA DUBIA = 240 MG/L
- 48 HOUR NO OBSERVED EFFECT CONCENTRATION IS 130 MG/L BASED ON NO MORTALITY OR ABNORMAL EFFECTS.
- 7-DAY CHRONIC REPRODUCTIVE IC25 AND IC25 TO

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File Name: 000097

CERIODOPHNIA DUBIA IS 17 MG/L AND 13 MG/L, RESPECTIVELY

THE 7-DAY NOEL BASED ON REPRODUCTION IS 12.5 MG/L THE 7-DAY LOEL BASED ON REPRODUCTION IS 25 MG/L

IF RELEASED INTO THE ENVIRONMENT, SEE CERCLA IN SECTION 14.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION: BASED ON OUR HAZARD CHARACTERIZATION, THE POTENTIAL ENVIRONMENTAL HAZARD IS: LOW:

BASED ON NALCO'S RECOMMENDED PRODUCT APPLICATION AND THE PRODUCT'S CHARACTERISTICS, THE POTENTIAL ENVIRONMENTAL EXPOSURE IS: HIGH.

## SECTION 13 TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND-MODE OF TRANSPORTATION. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES: PRODUCT IS NOT REGULATED DURING TRANSPORTATION

## SECTION 14 REGULATORY INFORMATION

THE FOLLOWING REGULATIONS APPLY TO THIS PRODUCT.

FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: BASED ON OUR HAZARD EVALUATION, THIS PRODUCT IS NOT HAZARDOUS.

CERCLA, 40 CFR 117, 302:

NOTIFICATION OF SPILLS OF THIS PRODUCT IS NOT REQUIRED.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED IN APPENDIX A AND B AS AN EXTREMELY HAZARDOUS SUBSTANCE.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

OUR HAZARD EVALUATION HAS FOUND THAT THIS PRODUCT IS NOT HAZARDOUS UNDER 29 CFR 1910.1200.

UNDER SARA 311 AND 312, THE EPA HAS ESTABLISHED THRESHOLD QUANTITIES FOR THE REPORTING OF HAZARDOUS CHEMICALS. THE CURRENT THRESHOLDS ARE: 500 POUNDS OR THE THRESHOLD PLANNING QUANTITY (TPQ), WHICHEVER IS LOWER, FOR EXTREMELY HAZARDOUS SUBSTANCES AND 10,000 POUNDS FOR ALL OTHER HAZARDOUS CHEMICALS.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS ON THE LIST OF TOXIC CHEMICALS.

Internal ID : 000097 File Name : 000097

TOXIC SUBSTANCES CONTROL ACT (TSCA): THE CHEMICAL INGREDIENTS IN THIS PRODUCT ARE ON THE 8(B) INVENTORY LIST (40 CFR 710).

FOOD AND DRUG ADMINISTRATION (FDA) FEDERAL FOOD, DRUG AND COSMETIC ACT: WHEN USE SITUATIONS NECESSITATE COMPLIANCE WITH FDA REGULATIONS, THIS PRODUCT IS ACCEPTABLE UNDER 21 CFR 176.180 - COMPONENTS OF PAPER AND PAPERBOARD IN CONTACT WITH DRY FOOD.

## U. S. DEPARTMENT OF AGRICULTURE (USDA):

USDA INSPECTION AND GRADING PROGRAMS - FOOD SAFETY AND INSPECTION SERVICE: THIS PRODUCT IS AUTHORIZED BY USDA FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS. AUTHORIZED USES ARE UNDER CATEGORY G5, G7. "

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: CONSULT SECTION 11 FOR RCRA CLASSIFICATION.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (FORMERLY SEC. 307), 40 CFR 116 (FORMERLY SEC. 311):
NONE OF THE INGREDIENTS ARE SPECIFICALLY LISTED.

CLEAN AIR ACT, SEC. 111 40 CFR 60), SEC. 112 (40 CFR 61, 1990 AMENDMENTS, SEC. 611 (40 CFR 82, CLASS I AND II OZONE DEPLETING SUBSTANCES): THIS PRODUCT DOES NOT CONTAIN INGREDIENTS COVERED BY THE CLEAN AIR ACT.

## STATE REGULATIONS:

#### CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS ETHYLENE OXIDE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE EFFECTS, AS AN IMPURITY OR RESIDUE.

#### MICHIGAN CRITICAL MATERIALS:

THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED ON THE MICHIGAN CRITICAL MATERIALS REGISTER.

## STATE RIGHT TO KNOW LAWS:

THE FOLLOWING INGREDIENT S) ARE DISCLOSED FOR COMPLIANCE WITH STATE RIGHT TO KNOW LAWS:

POLYGLYCOL

TRADE SECRET

INTERNATIONAL REGULATIONS:

THIS IS NOT A WHMIS CONTROLLED PRODUCT UNDER THE HOUSE OF COMMONS OF CANADA BILL C-70.

## SECTION: 15 ADDITIONAL INFORMATION: 3

NALCO INTERNAL NUMBER 308644

## **\_\_\_(1)**\_\_\_\_

Internal ID : 000097 File Name : 000097

## SECTION 16 RISK CHARACTERIZATION

-DUE TO OUR COMMITMENT TO PRODUCT STEWARDSHIP, WE HAVE EVALUATED THE HUMAN - AND ENVIRONMENTAL HAZARDS AND EXPOSURES OF THIS PRODUCT. BASED ON OUR RECOMMENDED USE OF THIS PRODUCT, WE HAVE CHARACTERIZED THE PRODUCT'S GENERAL RISK. THIS INFORMATION SHOULD PROVIDE ASSISTANCE FOR YOUR OWN RISK MANAGEMENT PRACTICES. WE HAVE EVALUATED OUR PRODUCT'S RISK AS FOLLOWS:

THE HUMAN RISK IS: LOW.

THE ENVIRONMENTAL RISK IS: LOW.

ANY USE INCONSISTENT WITH NALCO'S RECOMMENDATIONS MAY AFFECT OUR RISK CHARACTERIZATION. OUR SALES REPRESENTATIVE WILL ASSIST YOU TO DETERMINE IF YOUR PRODUCT APPLICATION IS CONSISTENT WITH OUR RECOMMENDATIONS. TOGETHER WE CAN IMPLEMENT AN APPROPRIATE RISK MANAGEMENT PROCESS.

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT IS TO BE USEL IN APPLICATIONS CONSISTENT WITH OUR PRODUCT LITERATURE. INDIVIDUALS HANDLING THIS PRODUCT SHOULD BE INFORMED OF THE RECOMMENDED SAFETY PRECAUTIONS AND SHOULD HAVE ACCESS TO THIS INFORMATION. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS. PLEASE CONSULT YOUR LOCAL SALES REPRESENTATIVE FOR ANY FURTHER INFORMATION.

# SECTIONNIT BIBLIOGRAPHY

ANNUAL REPORT ON CARCINOGENS, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, PB 33-135855, 1983.

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CHEMICAL HAZARDS OF THE WORKPLACE, PROCTOR, N. H., AND HUGHES, J. P., EDS., J. P. LIPINCOTT COMPANY, W.Y., 3RD EDITION, 1991.

DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, SAX, N. IRVING, ED., VAN NOSTRAND REINHOLD COMPANY, N.Y., 9TH EDITION, 1996.

IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO MAN, GENEVA: WORLD HEALTH ORGANIZATION, INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY, CLAYTON, G. D., CLAYTON, F. E., EDS., JOHN WILEY AND

, N. Y., 4TH EDITION, VOL. 2 A-F, 1994.

REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, 1983

Page 8

Manufacturer : NALCO Revision Date : 09-06-1996

SUPPLEMENT OF 1981-1982 . . ITION, VOL. 1-3, OH, 1984.

TITLE 29 CODE OF FEDERAL REGULATIONS PART 1910, SUBPART Z, TOXIC AND HAZARDOUS SUBSTANCES, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

Internal ID: 000097 File Name: 000097

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, OH.

PREPARED BY: WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S. WILLIAM S

DATE CHANGED: 09/06 98

DATE PRINTED: 10/14 98

NALCO CHEMICAL COMPANY
ONE NALCO CENTER
NAPERVILLE, ILLINOIS \$0563-1198
AREA 706-305-1000

mmon Name : TRASAR 23268 nufacturer : NALCO vision Date : 01-22-1996

TCO 🤏

Internal ID : 900005 File Name : 900005

TERIAL SAFETY DATA SHEET

RODUCT: TRASAR 23268 COOLING WTR TRMT

MERGENCY TELEPHONE NUMBER:

EDICAL (800) 462-5378 (24 HOURS)

(800) I-M-ALERT

## SECTION 1 PRODUCT IDENTIFICATION

RADE NAME: TRASAR 23268 COOLING WIR TRMT

ESCRIPTION:

N AQUEOUS SOLUTION OF A SUBSTITUTED TRIAZOLE AND AN ACRYLIC POLYMER with

tracer

FPA 704M/HMIS RATING:

/2 HEALTH

/1 FLAMMABILITY

/0 REACTIVITY

0 OTHER

=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

## SECTION 2 HAZARDOUS INGREDIENTS

DUR HAZARD EVALUATION HAS IDENTIFIED THE FOLLOWING CHEMICAL INGREDIENT(S) AS HAZARDOUS UNDER OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200. CONSULT SECTION 14 FOR THE NATURE OF THE HAZARD(S).

INGREDIENT (S)

CAS #

Ę

APPROX. &

SODIUM TOLYLTRIAZOLE

64665-57-2

1-5

## SECTION 3 PRECAUTIONARY LABEL INFORMATION

**NARNING:** 

CAUSES IRRITATION TO SKIN AND EYES. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WEAR GOGGLES AND FACE SHIELD WHEN HANDLING. DO NOT TAKE INTERNALLY.

EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. DO NOT REUSE CONTAINER UNLESS PROPERLY RECONDITIONED.

### SECTION 4 FIRST AID INFORMATION

EYES:

ommon Name : TRASAR 23268 lanufacturer : NALCO evision Date : 01-22-1996

Internal ID : 900005 File Name : 900005

MMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS PEN. CALL A PHYSICIAN AT ONCE.

KIN: FLUSH WITH WATER FOR 15 MINUTES.

NGESTION: DO NOT INDUCE VOMITING. GIVE WATER. CALL A PHYSICIAN.

NHALATION: REMOVE TO FRESH AIR, TREAT SYMPTOMS. CALL A PHYSICIAN.

OTE TO PHYSICIAN:

ASED ON THE INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT HOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITION.

AUTION:

F UNCONSCIOUS, HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE 'OMITING OR GIVE WATER.

## SECTION 5 HEALTH EFFECTS INFORMATION

'RIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN

YE CONTACT: CAN CAUSE MODERATE IRRITATION.

KIN CONTACT: CAN CAUSE MILD, SHORT-LASTING IRRITATION.

SYMPTOMS OF EXPOSURE:

REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY SYMPTOMS FROM EXPOSURE NOT REVIOUSLY MENTIONED.

AGGRAVATION OF EXISTING CONDITIONS:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

#### SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES:

ACUTE TOXICITY STUDIES HAVE NOT BEEN CONDUCTED ON THIS PRODUCT, BUT ACUTE STUDIES HAVE BEEN CONDUCTED ON A SIMILAR PRODUCT: THE RESULTS ARE SHOWN BELOW.

ACUTE ORAL TOXICITY (ALBINO RATS): LD50 = GREATER THAN 5,000 MG/KG

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):

5KIN IRRITATION INDEX DRAIZE RATING: 1.28/8.0 SLIGHTLY IRRITATING

COMMENTS:

SWELLING DISAPPEARED AFTER 24 HOURS AND THE REDNESS DISAPPEARED TWO WEEKS AFTER EXPOSURE.

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):

EYE IRRITATION INDEX DRAIZE RATING: 23.0/110.0 MODERATELY IRRITATING

COMMENTS:

mmon Name: TRASAR 23268 nufacturer : NALCO vision Date: 01-22-1996

Internal ID: 900005 File Name: 900005

## SPIRATORY PROTECTION:

SPIRATORY PROTECTION IS NOT NORMALLY NEEDED SINCE THE VOLATILITY AND TOXICITY LE LOW. IF SIGNIFICANT MISTS OR AEROSOLS ARE GENERATED, WEAR A NIOSH APPROVED : EOUIVALENT RESPIRATOR.

OR LARGE SPILLS, ENTRY INTO LARGE TANKS, VESSELS OR ENCLOSED SMALL SPACES WITH IADEQUATE VENTILATION, A POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS

INTILATION: GENERAL VENTILATION IS RECOMMENDED.

#### COTECTIVE EQUIPMENT:

SE IMPERMEABLE GLOVES AND CHEMICAL SPLASH GOGGLES WHEN ATTACHING FEEDING DUIPMENT, DOING MAINTENANCE OR HANDLING PRODUCT. EXAMPLES OF IMPERMEABLE OVES AVAILABLE ON THE MARKET ARE NEOPRENE, NITRILE, PVC, NATURAL RUBBER, ITON AND BUTYL (COMPATIBILITY STUDIES HAVE NOT BEEN PERFORMED).

HE AVAILABILITY OF AN EYE WASH FOUNTAIN AND SAFETY SHOWER IS RECOMMENDED.

CLOTHING IS CONTAMINATED, REMOVE CLOTHING AND THOROUGHLY WASH THE AFFECTED REA. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

## SECTION 11 SPILL AND DISPOSAL INFORMATION

1 CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR LEPHONE NUMBER: (800) I -M-ALERT OR (800) 462-5378

PILL CONTROL AND RECOVERY:

#### MALL LIQUID SPILLS:

INTAIN WITH ABSORBENT MATERIAL, SUCH AS CLAY, SOIL OR ANY COMMERCIALLY VAILABLE ABSORBENT. SHOVEL RECLAIMED LIQUID AND ABSORBENT INTO RECOVERY OR ALVAGE DRUMS FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.

## ARGE LIOUID SPILLS:

IKE TO PREVENT FURTHER MOVEMENT AND RECLAIM INTO RECOVERY OR SALVAGE DRUMS OR ANK TRUCK FOR DISPOSAL, REFER TO CERCLA IN SECTION 14.

#### SPOSAL:

THIS PRODUCT BECOMES A WASTE, IT MEETS THE CRITERIA OF A HAZARDOUS WASTE AS FINED UNDER THE RESOURCES COMSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261. AZARDOUS WASTE D002.

3 A HAZARDOUS LIQUID WASTE, IT MUST BE SOLIDIFIED WITH STABILIZING AGENTS BUCH AS SAND, FLY ASH, OR CEMENT) SO THAT NO FREE LIQUID REMAINS BEFORE FORAGE AND DISPOSAL FACILITY . A HAZARDOUS LIQUID WASTE CAN ALSO BE DEEP-WELL NJECTED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

## SECTION 12 ENVIRONMENTAL TINFORMATION

[OLOGICAL OXYGEN DEMAND (5-DAY BOD): 6,600 PPM mmon Name : TRASAR 23268 inufacturer : NALCO

Internal ID : 900005 File Name : 900005 vision Date: 01-22-1996

HEMICAL OXYGEN DEMAND (COD): 260,000 PPM

DTAL ORGANIC CARBON (TOC): 35,000

DUATIC DATA:

ISULTS BELOW ARE BASED ON THE PRODUCT.

6 HOUR STATIC ACUTE LC50 TO FATHEAD MINNOW = 418 MG/L

OXICITY RATING: SLIGHTLY TONIC

8 HOUR STATIC ACUTE LC50 TO TERIODEPHNIA DUBIA = 1,581 MG/L

OXICITY RATING: ESSENTIALLY HON-TOXIC

ESULTS BELOW BASED ON A SIMILAR PRODUCT.

6 HOUR STATIC ACUTE LC50 TO BLUEGILL SUNFISH = GREATER THAN 1,000 MG/L

6 HOUR NO OBSERVED EFFECT COMMENTRATION IS 1,000 MG/L BASED ON NO MORTALITY OR BNORMAL EFFECTS.

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'OXICITY RATING: ESSENTIALLY MON-TOXIC and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

16 HOUR STATIC ACUTE LC50 TO FAINBOW TROUT = 710 MG/L

16 HOUR NO OBSERVED EFFECT CONCENTRATION IS 125 MG/L BASED ON NO MORTALITY OR BNORMAL EFFECTS.

COXICITY RATING: SLIGHTLY TONIC

18 HOUR STATIC ACUTE LC50 TO TARHNIA MAGNA = GREATER THAN 1,000 MG/L

18 HOUR NO OBSERVED EFFECT COMMENTRATION IS 1,000 MG/L BASED ON NO MORTALITY OR ABNORMAL EFFECTS.

TOXICITY RATING: ESSENTIALLY NON-TOXIC

IF RELEASED INTO THE ENVIRONMENT, SEE CERCLA IN SECTION 14.

## SECTION 13 TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLAUS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. TYPICAL PROBER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES: CORROSIVE LIQUID, N.O.S.

UN/ID NO: UM 3267

HAZARD CLASS - PRIMARY: 8 - CORROSIVE

iommon Name : TRASAR 23268 fanufacturer : NALCO tevision Date : 01-22-1996

'ACKING GROUP: III

MDG PAGE NO: 8147-1

TATA PACKING INSTRUCTION: CARGO: 820

IATA CARGO AIRCRAFT LIMIT: 60 L (MAX NET QUANTITY PER PACKAGE)

LASH POINT: None

HAZARDOUS COMPONENT(S): SCDIUM TOLYLTRIAZOLE

RO LBS (PER PACKAGE): . NOME

RO COMPONENT(S) NOME

## SECTION 14 REGULATORY INFORMATION

Internal ID: 900005

File Name : 900005

THE FOLLOWING REGULATIONS APPLY TO THIS PRODUCT.

FEDERAL REGULATIONS:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
BASED ON OUR HAZARD EVALUATION, THE FOLLOWING INGREDIENT IN THIS PRODUCT
IS HAZARDOUS AND THE REASON IS SHOWN BELOW.

SODIUM TOLYLTRIAZOLE - EYE IRELITANT

CERCLA/SUPERFUND, 40 CFR 117, 112:

NOTIFICATION OF SPILLS OF THIS TRODUCT IS NOT REQUIRED.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARIOUS SUBSTANCES (40 CFR 355): THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED IN APPENDIX A AND B AS AN EXTREMELY HAZARDOUS SUBSTANCE.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

OUR HAZARD EVALUATION HAS FOULD THIS PRODUCT TO BE HAZARDOUS. THE PRODUCT SHOULD BE REPORTED UNDER THE FILLOWING EPA HAZARD CATEGORIES:

XX IMMEDIATE (ACUTE) HEALTH HAIARD

- -- DELAYED (CHRONIC) HEALTH HITTED
- -- FIRE HAZARD
- -- SUDDEN RELEASE OF PRESSURE HAZARD
- -- REACTIVE HAZARD

UNDER SARA 311 AND 312, THE EFE HAS ESTABLISHED THRESHOLD QUANTITIES FOR THE REPORTING OF HAZARDOUS CHEMICALS. THE CURRENT THRESHOLDS ARE: 500 POUNDS OR THE THRESHOLD PLANNING QUANTITY (TPQ), WHICHEVER IS LOWER, FOR EXTREMELY HAZARDOUS

immon Name : TRASAR 23268 anufacturer : NALCO ivision Date : 01-22-1996.

Internal ID : 900005 File Name : 900005

JBSTANCES AND 10,000 POUNDS FOR ALL OTHER HAZARDOUS CHEMICALS.

ECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
HIS PRODUCT DOES NOT CONTAIN INGREDIENTS ON THE LIST OF TOXIC CHEMICALS.

OXIC SUBSTANCES CONTROL ACT TECA):

HE CHEMICAL INGREDIENTS IN THIS PRODUCT ARE ON THE 8(B) INVENTORY LIST

40 CFR 710).

ESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: ONSULT SECTION 11 FOR RCRA CLASSIFICATION.

EDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15/ORMERLY SEC. 307, 40 CFR 116/FORMERLY SEC. 311:
HIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS COVERED BY THE CLEAN WATER CT:
ONE OF-THE INGREDIENTS ARE SPECIFICALLY LISTED.

LEAN AIR ACT, SEC. 111 (40 CFR 60), SEC. 112 (40 CFR 61, 1990 AMENDMENTS), EC. 611 (40 CFR 32, CLASS I RAND II OZONE DEPLETING SUBSTANCES): 'HIS PRODUCT DOES NOT CONTAIN INGREDIENTS COVERED BY THE CLEAN AIR ACT.

#### TATE REGULATIONS:

LALIFORNIA PROPOSITION 65: L'HIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS WHICH REQUIRE WARNING UNDER L'ALIFORNIA PROPOSITION 65.

MICHIGAN CRITICAL MATERIALS:
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED ON THE MICHIGAN CRITICAL MATERIALS REGISTER:

STATE RIGHT TO KNOW LAWS:

THE FOLLOWING INGREDIENT(S) AFE DISCLOSED FOR COMPLIANCE WITH STATE RIGHT TO KNOW LAWS:

ACRYLIC POLYMER TRADE SECRET SODIUM TOLYLTRIAZOLE 64443-57-2 WATER 7731-18-5

#### INTERNATIONAL REGULATIONS:

THIS IS A WHMIS CONTROLLED PROJUCT UNDER THE HOUSE OF COMMONS OF CANADA BILL C-70 (CLASS D2B). THE PRODUCT COUTAINS THE FOLLOWING SUBSTANCE(S), FROM THE INGREDIENT DISCLOSURE LIST OR HAS BEEN EVALUATED BASED ON ITS TOXICOLOGICAL PROPERTIES, TO CONTAIN THE FOLLOWING HAZARDOUS INGREDIENT(S):

CHEMICAL NAME

CAS #

% CONCENTRATION RANGE

SODIUM TOLYLTRIAZOLE

64665-57-2

1-5

immon Name : TRASAR 23268 inufacturer : NALCO ivision Date : 01-22-1996

Internal ID: 900005 File Name: 900005

## SECTION 15 ADDITIONAL INFORMATION

ONE

## SECTION 16 USER IS RESPONSIBILITIES.

HIS PRODUCT MATERIAL SAFETY LATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. HE PRODUCT IS TO BE USED IN APPLICATIONS CONSISTENT WITH OUR PRODUCT ITERATURE. INDIVIDUALS HANDLING THIS PRODUCT SHOULD BE INFORMED OF THE ECOMMENDED SAFETY PRECAUTIONS AND SHOULD HAVE ACCESS TO THIS INFORMATION. FOR NY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING RACTICES AND TRAINING PROGRAMM CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE PERATIONS. PLEASE CONSULT YOUR LOCAL SALES REPRESENTATIVE FOR ANY FURTHER NFORMATION.

## SETTION 17 BIBLIOGRAPHY

NNUAL REPORT ON CARCINOGENS, U.S. DEPARTMENT OF HEALTH AND HUMAN ERVICES, PUBLIC HEALTH SERVICES PB 33-135855, 1983.

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DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, SAX, N. IRVING, ED., VAN JOSTRAND REINHOLD COMPANY, N.T. 6TH EDITION, 1984.

LARC MONOGRAPHS ON THE EVALUAT OF THE CARCINOGENIC RISK OF CHEMICALS TO MAN, GENEVA: WORLD HEALTH REANIZATION, INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, 1972-1977.

PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY, CLAYTON, G. D., CLAYTON, F. E., EDS., JOHN WILEY AND SONS, N. T., 3RD EDITION, VOL. 2 A-C, 1981.

REGISTRY OF TOXIC EFFECTS ON AMERICAL SUBSTANCES, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, NATIONAL INSTITUTE F & OCCUPATIONAL SAFETY AND HEALTH, 1983 SUPPLEMENT OF 1981-1982 EDITI WOL. 1-3, OH, 1984.

TITLE 29 CODE OF FEDERAL REGULATIONS PART 1910, SUBPART Z, TOXIC AND HAZARDOUS SUBSTANCES, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

THRESHOLD LIMIT VALUES FOR CHERICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTERDED CHANGES, AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, OH.

ommon Name : TRASAR 23268 lanufacturer : NALCO evision Date : 01-22-1996

Internal ID : 900005 File Name : 900005

REPARED BY:

William S. Utlay, PHD., DABT, Manager, Product Safety

01/22/96 ATE CHANGED:

DATE PRINTED: 04/04/98

ALCO CHEMICAL COMPANY

NE NALCO CENTER

APERVILLE, ILLINOIS 60563-11 ...

REA 630-305-1000

Common Name : A+Z+LITE 7356 Manufacturer : NALCO Revision Date : 08-17-1993

Internal ID : 000159 File Name : 000159

NALCO ·

MATERIAL SAFETY DATA SHEET

PRODUCT: NALCO A+Z+LITE 7356

EMERGENCY TELEPHONE NUMBER:

MEDICAL (800) 462-5378 (24 HOURS)

(800) I-M-ALERT

## SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCO A+Z+LITE 7356

DESCRIPTION:

AN AQUEOUS SOLUTION OF A ZINC SALT, A SUBSTITUTED CARBOXYLIC ACID AND

PHOSPHORIC ACID

NFPA 704M/HMIS RATING:

1/1 HEALTH

0/0 FLAMMABILITY

0/0 REACTIVITY

0 OTHER

0=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

## SECTION 2 HAZARDOUS INGREDIENTS

OUR HAZARD EVALUATION HAS IDENTIFIED THE FOLLOWING CHEMICAL INGREDIENT(S) AS HAZARDOUS UNDER OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200. CONSULT SECTION 14 FOR THE NATURE OF THE HAZARD(S).

INGREDIENT (S)

CAS #

APPROX. 8

PHOSPHORIC ACID

7664-38-2

5-10

ZINC CHLORIDE

7646-35-7

1-5

#### SECTION 3 PRECAUTIONARY LABEL INFORMATION

#### WARNING:

CAUSES IRRITATION TO SKIN AND EYES. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. WEAR GOGGLES AND FACE SHIELD WHEN HANDLING. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP CONTAINER CLOSED WHEN NOT IN USE.

EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. DO NOT REUSE CONTAINER UNLESS PROPERLY RECONDITIONED.

Common Name : A+Z+LITE 7356 Manufacturer : NALCO Revision Date : 08-17-1993

Internal ID : 000159 File Name : 000159

## SECTION 4 FIRST AID INFORMATION

EYES: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN.

SKIN: FLUSH WITH WATER FOR 15 MINUTES.

INGESTION: DO NOT INDUCE VOMITING. GIVE WATER. CALL A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. TREAT SYMPTOMS. CALL A PHYSICIAN.

NOTE TO PHYSICIAN:

BASED ON THE INDIVIDUAL REACTIONS. OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITION.

CAUTION:

IF UNCONSCIOUS, HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITING OR GIVE WATER.

## SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN

EYE CONTACT: CAN CAUSE MILD, SHORT-LASTING IRRITATION.

SKIN CONTACT: CAN CAUSE MILD, SHORT-LASTING IRRITATION.

SYMPTOMS OF EXPOSURE:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY SYMPTOMS FROM EXPOSURE NOT PREVIOUSLY MENTIONED.

AGGRAVATION OF EXISTING CONDITIONS:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

## SECTION 6 TOXICOLOGY INFORMATION

TOXICITY STUDIES:

TOXICITY STUDIES HAVE BEEN CONDUCTED ON THIS PRODUCT. THE RESULTS ARE SHOWN BELOW.

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):

SKIN IRRITATION INDEX DRAIZE RATING: 1.6/8.0 MINIMALLY IRRITATING

COMMENTS:

REDNESS AND SWELLING WERE NOTED IMMEDIATELY UPON REMOVAL OF THE OCCLUSIVE DRESSING. AT 24 HOURS, THREE OF THE SIX RABBITS STILL EXHIBITED REDNESS. THIS REDNESS SLOWLY SUBSIDED SO THAT BY DAY SEVEN ALL RABBITS HAD RETURNED TO NORMAL.

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):

EYE IRRITATION INDEX DRAIZE RATING: 13/110.0 MINIMALLY IRRITATING

Common Name: A+Z+LITE 7356 Manufacturer: NALCO Revision Date : 08-17-1993

Internal ID : 000159 File Name : 000159

#### COMMENTS:

NO CORNEAL OPACITY WAS NOTED AT ANY SCORING INTERVAL. SLIGHT IRITIS WAS OBSERVED ON DAYS 1, 2 AND 3 IN TWO OF SIX ANIMALS. THIS CLEARED BY DAY SEVEN. MODERATE TO SEVERE CONJUNCTIVAL IRRITATION WAS NOTED AMONG ALL SIX RABBITS. BY DAY SEVEN ALL BUT ONE RABBIT HAD RETURNED TO NORMAL.

## SECTION-7-PHYSICAL AND CHEMICAL PROPERTIES.

COLOR:

CLEAR COLORLESS TO LIGHT YELLOW

FORM:

LIOUID

ODOR:

NONE

DENSITY:

9.2-9.4 LBS/GAL.

SOLUBILITY IN WATER:

COMPLETELY

SPECIFIC GRAVITY:

1.10-1.13 @ 60 DEGREES F

ASTM D-1298

PH (NEAT) =

0.2 - 0.8

ASTM E-70

VISCOSITY:

4 CPS @ 60 DEGREES F

ASTM D-2983

FREEZE POINT:

20 DEGREES F

ASTM D-1177

BOILING POINT:

210 DEGREES F @ 760 MM HG

ASTM D-86

FLASH POINT:

NONE (PMCC)

ASTM D-93

THESE PHYSICAL PROPERTIES ARE TYPICAL VALUES FOR THIS PRODUCT. NOTE:

## SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: NONE (PMCC)

ASTM 1-93

EXTINGUISHING MEDIA: NOT APPLICABLE

UNUSUAL FIRE AND EXPLOSION HAZARD:

CONTACT WITH REACTIVE METALS (EG. ALUMINUM) MAY RESULT IN THE GENERATION OF

FLAMMABLE HYDROGEN GAS.

## SECTION 9 REACTIVITY INFORMATION

#### INCOMPATIBILITY:

AVOID ALKALINE MATERIALS [EG. AMMONIA AND ITS SOLUTIONS, CARBONATES, SODIUM HYDROXIDE (CAUSTIC), POTASSIUM HYDROXIDE, CALCIUM HYDROXIDE (LIME), CYANIDES, SULFIDES, HYPOCHLORITES, CHLORITES) WHICH CAN GENERATE HEAT WITH SPLATTERING OR BOILING AND THE RELEASE OF TOXIC FUMES.

Common Name : A+Z+LITE 7356 Manufacturer : NALCO

Internal ID : 000159 File Name : 000159 Revision Date: 08-17-1993

AVOID CONTACT WITH ALUMINUM. CORROSIVE TO ALUMINUM.

## THERMAL DECOMPOSITION PRODUCTS:

IN THE EVENT OF COMBUSTION CO, CO2 MAY BE FORMED. DO NOT BREATHE SMOKE OR FUMES. WEAR SUITABLE PROTECTIVE EQUIPMENT.

## SECTION 10 PERSONAL PROTECTION EQUIPMENT

## RESPIRATORY PROTECTION:

IF IT IS POSSIBLE TO GENERATE SIGNIFICANT LEVELS OF VAPORS OR MISTS, A NIOSH APPROVED OR EQUIVALENT ACID GAS CARTRIDGE RESPIRATOR IS RECOMMENDED.

FOR LARGE SPILLS, ENTRY INTO LARGE TANKS, VESSELS OR ENCLOSED SMALL SPACES WITH INADEQUATE VENTILATION, A POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

GENERAL VENTILATION IS RECOMMENDED. VENTILATION:

## PROTECTIVE EQUIPMENT:

USE IMPERMEABLE GLOVES AND CHEMICAL SPLASH GOGGLES WHEN ATTACHING FEEDING EQUIPMENT, DOING MAINTENANCE OR-HANDLING PRODUCT. EXAMPLES OF IMPERMEABLE GLOVES AVAILABLE ON THE MARKET ARE NEOPRENE, NITRILE, PVC, NATURAL RUBBER, VITON AND BUTYL (CCMPATIBILITY STUDIES HAVE NOT BEEN PERFORMED).

THE AVAILABILITY OF AN EYE WASH FOUNTAIN AND SAFETY SHOWER IS RECOMMENDED. The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon

IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING AND THOROUGHLY WASH THE AFFECTED AREA. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

## SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (800) I-M-ALERT OR (800) 462-5378.

SPILL CONTROL AND RECOVERY:

#### SMALL LIQUID SPILLS:

CONTAIN WITH ABSORBENT MATERIAL, SUCH AS CLAY, SOIL OR ANY COMMERCIALLY AVAILABLE ABSCRBENT. SHOVEL RECLAIMED LIQUID AND ABSORBENT INTO RECOVERY OR SALVAGE DRUMS FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.

### LARGE LIQUID SPILLS:

DIKE TO PREVENT FURTHER MOVEMENT AND RECLAIM INTO RECOVERY OR SALVAGE DRUMS OR TANK TRUCK FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.

FOR LARGE INDCOR SPILLS, EVACUATE EMPLOYEES AND VENTILATE AREA. THOSE RESPONSIBLE FOR CONTROL AND RECOVERY SHOULD WEAR THE PROTECTIVE EQUIPMENT SPECIFIED IN SECTION 10.

#### DISPOSAL:

IF THIS PRODUCT BECOMES A WASTE, IT MEETS THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261.

Common Name : A+Z+LITE 7356 Manufacturer : NALCO Revision Date : 08-17-1993

HAZARDOUS WASTE D002.

Internal ID : 000159 File Name : 000159

AS A HAZARDOUS LIQUID WASTE, IT SHOULD BE SOLIDIFIED WITH STABILIZING AGENTS (SUCH AS SAND, FLY ASH, OR CEMENT) SO THAT NO FREE LIQUID REMAINS BEFORE DISPOSAL TO AN INDUSTRIAL WASTE LANDFILL. A HAZARDOUS LIQUID WASTE CAN ALSO BE DEEP-WELL INJECTED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

## SECTION 12 ENVIRONMENTAL INFORMATION

## AOUATIC DATA:

96 HOUR STATIC ACUTE LC50 TO BLUEGILL SUNFISH = 700 MG/L

96 HOUR NO OBSERVED EFFECT CONCENTRATION IS 180 MG/L BASED ON NO MORTALITY OR ABNORMAL EFFECTS.

TOXICITY RATING: SLIGHTLY TOXIC

96 HOUR STATIC ACUTE LC50 TO RAINBOW TROUT = 8.7 Mg/L

96 HOUR NO OBSERVED EFFECT CONCENTRATION IS 2.5 MG/L BASED ON NO MORTALITY OR ABNORMAL EFFECTS.

TOXICITY RATING: TOXIC

96 HOUR STATIC ACUTE LC50 TO MYSID SHRIMP = 26.9 MG/L

96 HOUR NOEC = 15 MG/L

TOXICITY RATING: MODERATELY TOXIC

IF RELEASED INTO THE ENVIRONMENT, SEE CERCLA IN SECTION 14.

## SECTION 13 TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES: CORROSIVE LIQUID, N.O.S.

UN/ID NO:

UN 1760

HAZARD CLASS - PRIMARY:

8 - CORROSIVE

PACKING GROUP:

III

IMDG PAGE NO:

8147

IATA NOTE:

P:318 C:320

IATA LIMIT:

C: 60 L

Common Name : A+Z+LITE 7356 Manufacturer : NALCO Revision Date : 08-17-1993

FLASH POINT: NONE

HAZARDOUS COMPONENT(S): PHOSPHORIC ACID, ZINC CHLORIDE

RO LBS (PER PACKAGE): 24,000

RO COMPONENT(S) ZINC CHLORIDE

#### SECTION 14 REGULATORY INFORMATION

Internal ID : 000159 File Name : 000159

THE FOLLOWING REGULATIONS APPLY TO THIS PRODUCT.

FEDERAL REGULATIONS:

OSHA HAZARD-COMMUNICATION RULE, 29 CFR 1910.1200:
BASED ON OUR HAZARD EVALUATION, THE FOLLOWING INGREDIENTS IN THIS PRODUCT
ARE HAZARDOUS AND THE REASONS ARE SHOWN BELOW.

PHOSPHORIC ACID = TWA 1 MG/M3, STEL 3 MG/M3 ACGIH/TLV ZINC CHLORIDE (FUME) = TWA 1 MG/M3, STEL 2 MG/M3 ACGIH/TLV

PHOSPHORIC ACED = TWR 1 MG/M3, STEL 3 MG/M3 OSHA/PEL ZINC CHLORIDE (FUME) = TWR 1 MG/M3, STEL 2 MG/M3 OSHA/PEL

CERCLA/SUPERFUND, 40 CFR 117, 302:

THIS PRODUCT CONTAINS ZINC CHLORIDE A REPORTABLE QUANTITY (RQ) SUBSTANCE AND IF 24,000 POUNDS OF PRODUCT ARE RELEASED, IT REQUIRES NOTIFICATION TO THE NATIONAL RESPONSE CENTER, WASHINGTON, D.C. (1-800-424-8802).

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED IN APPENDIX A AND B AS AN EXTREMELY HAZARDOUS SUBSTANCE.

SECTIONS 311 AND 312 - MATERIAL SAFETY LATA SHEET REQUIREMENTS (40 CFR 370):

OUR HAZARD EVALUATION HAS FOUND THIS PRODUCT TO BE HAZARDOUS. THE PRODUCT SHOULD BE REPORTED UNDER THE FOLLOWING EPA HAZARD CATEGORIES:

XX IMMEDIATE (ACUTE: HEALTH HAZARD

- -- DELAYED (CHRONIC HEALTH HAZARD
- -- FIRE HAZARD
- -- SUDDEN RELEASE OF PRESSURE HAZARD
- -- REACTIVE HAZARD

UNDER SARA 311 AND 312, THE EPA HAS ESTABLISHED THRESHOLD QUANTITIES FOR THE REPORTING OF HAZARDOUS CHEMICALS. THE CURRENT THRESHOLDS ARE: 500 POUNDS OR THE THRESHOLD PLANNING QUANTITY (TPQ), WHICHEVER IS LOWER, FOR EXTREMELY HAZARDOUS SUBSTANCES AND 10,000 POUNDS FOR ALL OTHER HAZARDOUS CHEMICALS.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

Common Name : A+Z+LITE 7356 Manufacturer : NALCO Revision Date : 08-17-1993

Internal ID : 000159 File Name : 000159

THIS PRODUCT CONTALMS THE FOLLOWING INGREDIENT(S), (WITH CAS # AND % RANGE) WHICH APPEAR(S) ON THE LIST OF TOXIC CHEMICALS.

PHOSPHORIC ACID

7564-38-2

5-10

ZINC CHLORIDE

7646-85-7

1-5

TOXIC SUBSTANCES CONTROL ACT (TSCA)

THE CHEMICAL INGREDIENTS IN THIS PRODUCT ARE ON THE 8 (B) INVENTORY LIST (40 CFR 710).

U.S. DEPARTMENT OF AGRICULTURE (USDA):

USDA INSPECTION AND GRADING PROGRAMS - FOOD SAFETY AND INSPECTION SERVICE: THIS PRODUCT IS AUTHORIZED BY USDA FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS. AUTHORIZED USE 4S UNDER CATEGORY G5, FOR TREATMENT OF COOLING AND RETORT WATER; AND GG, TREATING BOILERS, STEAM LINES, AND/GR COOLING SYSTEMS. THE FOLLOWING LIMITATIONS APPLY FOR G7: NO CONTACT WITH EDIBLE PRODUCTS.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: CONSULT SECTION 11 FOR RCRA CLASSIFICATION.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (FORMERLY SEC. 307), 40 CFR 116/FORMERLY SEC. 311:
THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENTS COVERED BY THE CLEAN WATER ACT:

ZINC CHLORIDE - SECTION 307, 311 PHOSPHORIC ACID - SECTION 311

CLEAN AIR ACT, SEC. 111 41 CFR 50), SEC. 112 (40 CFR 61, 1990 AMENDMENTS), SEC. 611 (40 CFR 82, CLASS I RIVD II OZONE DEPLETING SUBSTANCES): THIS PRODUCT DOES NOT CONTAIN INGREDIENTS COVERED BY THE CLEAN AIR ACT.

#### STATE REGULATIONS:

CALIFORNIA PROPOSITION 83:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS WHICH REQUIRE WARNING UNDER CALIFORNIA PROPOSITION 88.

MICHIGAN CRITICAL MATERIALS:

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) IDENTIFIED ON THE MICHIGAN CRITICAL MATERIALS REGISTER:

ZINC CHLORIDE

STATE RIGHT TO KNOW LAWS:

REGULATED IN THOSE STATE USING THE TLV FOR ZINC CHLORIDE, PHOSPHORIC ACID AS A CRITERIA FOR LISTING.

Common Name : A+Z+LITE 7356 Manufacturer : NALCO Revision Date : 08-17-1993

Internal ID : 000159 File Name : 000159

INTERNATIONAL REGULATIONS:

THIS IS A WHMIS CONTROLLED PRODUCT UNDER THE HOUSE OF COMMONS OF CANADA BILL C-70. THE PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S), FROM THE INGREDIENT DISCLOSURE LIST OR HAS BEEN EVALUATED BASED ON ITS TOXICOLOGICAL PROPERTIES, TO CONTAIN THE FOLLOWING HAZARDOUS INGREDIENT(S):

CHEMICAL NAME

CAS #

**\* CONCENTRATION RANGE** 

PHOSPHORIC ACID ZINC CHLORIDE 7664-38-2 7646-85-7 5-10 1-5

• SECTION 15 ADDITIONAL INFORMATION

NONE

## SECTION 16 USER'S RESPONSIBILITY

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT IS TO BE USED IN APPLICATIONS CONSISTENT WITH OUR PRODUCT LITERATURE. INDIVIDUALS HANDLING THIS PRODUCT SHOULD BE INFORMED OF THE RECOMMENDED SAFETY PRECAUTIONS AND SHOULD HAVE ACCESS TO THIS INFORMATION. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS. PLEASE CONSULT YOUR LOCAL SALES REPRESENTATIVE FOR ANY FURTHER INFORMATION.

#### SECTION 17 BIBLIOGRAPHY

ANNUAL REPORT ON CARCINOGENS, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, PB 33-135855, 1983.

CASARETT AND DOULL'S TOXICOLOGY, THE BASIC SCIENCE OF POISONS, DOULL, J., KLAASSEN, C. D., AND ADMUR, M. D., EDS., MACMILLIAN PUBLISHING COMPANY, INC., N. Y., 2ND EDITION, 1980.

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REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, 1983

Manufacturer : NALCO Revision Date : 08-17-1993

Internal ID : 000159 File Name : 000159

SUPPLEMENT OF 1981-1982 EDITION, VOL. 1-3, OH, 1984.

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THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, OH.

PREPARED BY: RICKY A. STACKHOUSE PHD., TOXICOLOGIST

DATE CHANGED: 08/17/93
DATE PRINTED: 11/18/95

NALCO CHEMICAL COMPANY

ONE NALCO CENTER

NAPERVILLE, ILLINOIS 60563-1198

AREA 708-305-1000

| Manuracturer : NALCO | Internal ID : 000096 | Revision Date : 01-23-1996 | File Name : 000096

NALCÓ

MATERIAL SAFETY DATA SHEET

PRODUCT: NALCO 71-D5 ANTIFOAM

EMERGENCY TELEPHONE NUMBER:

MEDICAL (800) 462-5378 (24 HCTT.S)

(800) <u>I-M</u>-ALERT

### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: MALCO 71-D5 ANTIFOAM

DESCRIPTION:

A BLEND OF FATTY AGIDS, POLYGLECOLS, POLYGLYCOL ESTERS, IN HYDROCARBON OIL

NFPA 704M/HMIS RATING:

1/1 HEALTH

1/1 FLAMMABILITY

0/0 REACTIVITY

OTHER

T=INSIGNIFICANT

Manchitema (a)

1=SLIGHT

2=MODERATE

3=HIGH

4=EXTREME

#### SECTION 2 HAZARDOUS INGREDIENTS

OUR HAZARD EVALUATION HAS IDENTIFIED THE FOLLOWING CHEMICAL INGREDIENT(S) AS HAZARDOUS UNDER OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200. CONSULT SECTION 14 FOR THE NATURE OF THE HAZARD(S).

| _NGREDIENI(3)                   | CAS #      | APPRUX.8 |
|---------------------------------|------------|----------|
| KEROSENE                        | 8008-20-6  | 10-20    |
| PARAFFIN WAX                    | 8002-74-2  | 1-5      |
| STRAIGHT RUN MIDDLE DISTILLATE. | 64741-44-2 | 40-70    |

#### SECTION 3 PRECAUTIONARY LABEL INFORMATION

#### CAUTION:

MAY CAUSE IRRITATION TO SKIN AND EYES. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.

EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. DO NOT REUSE CONTAINER

Common Name : 71-D5 ANTIFOAM Manufacturer : NALCO

 Manufacturer : NALCO
 Internal ID : 000096

 Revision Date : 01-23-1996
 File Name : 000096

UNLESS PROPERLY RECONDITIONED.

## SECTION 4 FIRST AID INFORMATION

EYES: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN.

SKIN:

WASH THOROUGHLY WITH SOAP AND RINSE WITH WATER, CALL A PHYSICIAN.

INGESTION: DO NOT INDUCE VOMITING. GIVE WATER. CALL A PHYSICIAN.

INHALATION: REMOVE TO FRESH HIR. TREAT SYMPTOMS. CALL A PHYSICIAN.

NOTE TO PHYSICIAN:

BASED ON THE INDIVIDUAL REACTI NS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO GOODTROL STATEOMS AND CLINICAL CONDITION.

CAUTION:

IF UNCONSCIOUS, HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITING OR GIVE WATER.

## SECTION SECTION SHEELTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN, INHALATION

EYE CONTACT: CAN CAUSE MILD, SHORT-LASTING IRRITATION.

SKIN CONTACT: CAN CAUSE MILE, SHORT-LASTING IRRITATION.

INHALATION: PROLONGED INHALATION OF VAPOR MAY BE HARMFUL.

SYMPTOMS OF EXPOSURE:

ACUTE:

INHALATION OF HIGH CONCENTRATIONS OF PRODUCT CAN CAUSE NAUSEA, DICTINESS, VOMITING, STUPOR OR UNCONSCIOUNESS.

CHRONIC:

PROLONGED SKIN CONTACT WITH PRITUCT DAN CAUSE DRY SKIN AND DEFATTING RESULTING IN IRRITATION AND DEFMATITIES.

AGGRAVATION OF EXESTING CONDITIONS:

A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

## SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES:

ACUTE TOXICITY STUDIES HAVE BEEN CONDUCTED ON THIS PRODUCT. THE RESULTS ARE SHOWN BELOW.

ommon ame: ANTIFC \
Manufacturer: NALCO
Revision Date: 01-23-1996

Internal ID : 000096 File Name : 000096

ACUTE ORAL TOXICITY (ALBINO RATS): LD50 = GREATER THAN 15,380 MG/KG

FACUTE DERMAL TOXICITY (ALBINO BABBITS): LD50 = GREATER THAN 3,038 MG/KG

PRIMARY SKIN IRRITATION TEST ALBING RABBITS):

SKIN IRRITATION INDEX DRAIDE BATING: 3.1/8.0 MODERATELY IRRITATING

PRIMARY EYE IRRITATION TEST- - ALBINO RABBITS):

EYE IRRITATION INDEX DRAIZE FAITING: 6.0/110.0 MINIMAL IRRITATION

HUMAN HAZARD CHARACTERIZATION: BASED ON OUR HAZARD CHARACTERIZATION,

THE POTENTIAL HUMAN HAZARD IS: LOW

## SECTION 7 FHYSICAL AND CHEMICAL PROPERTIES

COLOR: PALE STRAW

FORM: LIQUID

ODOR: FAINTLY HYDROCARBON

DENSITY: 6.9-7.5 LBS/GAL.

SOLUBILITY IN WATER: INSCLUELE

SRECIFIC GRAVITY: 0.83-0.90 3 77 DEGREES F ASTM D-1298 --

VISCOSITY: 13.8 CPS @ 60 DEGREES F ASTM D-2983

FREEZE POINT: 45 DEGREES F ASTM D-1177

FOUR POINT: 45 DEGREES F ASTM D-97

FLASH POINT: 260 DEGREES F PMCC ASTM D-93

VAPOR PRESSURE:

0.5 MM HG @ 68 DEGREES F

1.3 MM HG @ 100 DEGREES F

4.4 MM HG @- 150 DEGREES F - ASTM D-323

NOTE: THESE PHYSICAL PROPERTIES ARE TYPICAL VALUES FOR THIS PRODUCT.

#### 

FLASH POINT: 260 DEGREES F FILOS) ASTM D-93

#### EXTINGUISHING MEDIA:

BASED ON THE NFPA GUIDE, USE DAY CHEMICAL, FOAM, CARBON DIOXIDE OR OTHER EXTINGUISHING AGENT SUITABLE FUR CLASS B FIRES. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE. FOR LARGE FIRES, USE WATER SPRAY OR FOG, THOROUGHLY DRENCHING THE BURNING MATERIAL.

Manufacturer : NALCO Revision Date : 01-23-1996

Internal ID : 000096 File Name : 000096

UNUSUAL FIRE AND EXPLOSION MAZARD:

CONTAINERS EXPOSED IN A FIRE SHOULD BE COOLED WITH WATER TO PREVENT VAPOR -PRESSURE BUILDUP LEADING TO A RUPTURE.

## SECTION 9 REACTIVITY INFORMATION

#### INCOMPATIBILITY:

AVOID CONTACT WITH STRONG OXIDITERS (EG. CHLORINE, PEROXIDES, CHROMATES, NITRIC ACID, PERCHLORATES, CONCENTRATED OXIGEN, PERMANGANATES) WHICH CAN GENERATE HEAT, FIRES, EXPLOSIONS AND THE RELEASE OF TOXIC FUMES.

#### STORAGE:

PRODUCT SHOULD BE STORED AT TEMPERATURES ABOVE 65 DEGREES F. IF SOLIDIFIED, WARM SLOWLY (DO NOT USE LIVE STEAM) TO 70-100 DEGREES F. FREEZING DOES NOT REDUCE THE EFFICIENCY OF THE PRODUCT WHEN PROPERLY RELIQUIFIED.

### THERMAL DECOMPOSITION FROIDCTS:

IN THE EVENT OF COMBUSTION CO, CO2 HAY BE FORMED. DO NOT BREATHE SMOKE OR FUMES. WEAR SUITABLE PROTECTIVE EQUIPMENT.

## AND AND AND AND AND AND ASSECTION FOR PERSONAL PROTECTION EQUIPMENT AND AND AND AND AND AND AND AND AND ASSECT

### RESPIRATORY PROTECTION:

RESPIRATORY PROTECTION IS NOT NORMALLY NEEDED SINCE THE VOLATILITY AND TOXICITY ARE LOW. IF SIGNIFICANT VAPORS, MISTS OR AEROSOLS ARE GENERATED, WEAR A NIOSH APPROVED OR EQUIVALENT RESPIRATOR.

FOR LARGE SPILLS, ENTRY INTO LARGE TANKS, VESSELS OR ENCLOSED SMALL SPACES WITH INADEQUATE VENTILATION, A POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

VENTILATION: GENERAL VENTILATION IS RECOMMENDED.

#### PROTECTIVE EQUIPMENT:

USE IMPERMEABLE GLOVES AND CHEMICAL SPLASH GOGGLES WHEN ATTACHING FEEDING EQUIPMENT OR DOING MAINTENANCE.

THE AVAILABILITY OF AN EVE WASH FOUNTAIN AND SAFETY SHOWER IS RECOMMENDED.

IF CLOTHING IS CONTAMINATED, REMOVE DIGTHING AND THOROUGHLY WASH THE AFFECTED AREA. LAUNIER DINTAMINATED CLOTHING BEFORE REUSE.

#### HUMAN EXPOSURE CHAPACTERICATION:

BASED ON NALCO'S RECOMMENTED PRODUCT APPLICATION AND OUR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT, THE POTENTIAL HUMAN EXPOSURE IS: MODERATE.

#### SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (800) I-M-ALERT CR (800) 462-5378.

Common Name: 71-D5 ANTIFOAM Manufacturer: NALCO Revision Date: 01-23-1996

Internal ID: 000096 File Name: 000096

96 HOUR STATIC ACUTE LC6: TO FATHEAD MINNOW = 190 MG/L

96 HOUR NO OBSERVED EFFE TO CONCENTRATION IS LESS THAN 100 Mg/L BASED ON NO MORTALITY OR ABNORMAL EFFECTS.

TOXICITY RATING: SLIGHTLY TOXI

#### IF RELEASED INTO THE ENVIRONMENT, SEE CERCLA IN SECTION 14.

ENVIRONMENTAL HAZARD AND EMPOSURE CHARACTERIZATION: BASED ON OUR HAZARD CHARACTERIZATION, THE POTENTIAL ENVIRONMENTAL HAZARD IS: LOW. BASED ON NALCO'S RECOMMENCED PRODUCT APPLICATION AND THE PRODUCT'S CHARACTERISTICS, THE POTENTIAL ENVIRONMENTAL EXPOSURE IS: HIGH.

## TRANSPORTATION INFORMATION

PROPER SHIPPING NAME HADARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. IMPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES: PRODUCT IS NOT REGULATED DURING TRANSPORTATION

## SECTION: 14 REGULATORY INFORMATION DISCUSS CONTRACTOR

THE FOLLOWING REGULATIONS APPLY TO THIS PRODUCT.

FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATING RULE, 29 CFR 1910.1200: BASED ON OUR HAZARI EVALUATION, THE FOLLOWING INGREDIENTS IN THIS PRODUCT ARE HAZARDOUS AND THE REASONS ARE SHOWN BELOW.

KEROSENE - SKIN IBBITANT STRAIGHT RUN MILLLE DISTILLATES - SHIN ERRITANT

KEROSENE (OIL MIST = TMA 8 MG/H3, STEL 10 MG/M3 ACGIH/TLV PARAFFIN WAX (FUME) = TWA 1 MG/M3 ACGIH/TLV .
STPAIGHT RUN MIDDLE DISTILIATES (OIL MIST) = TWA 5 MG/M3, STEL 10 MG/M3 ACGIH/TL/

= TWA 3 MG/113 CSHA/PEL KEROSENE (OIL MIST STRAIGHT RUN MIDILE DISTILLATES +CIL MIST) = TWA 5 MG/M3

KEROSENE = TWA 100 2 2M

MENUFACTURER'S RECOMMENDATION

CERCLA, 40 CFR 117, 302: NOTIFICATION OF SPILLS OF THIS PRODUCT IS NOT REQUIRED.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 3.1, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED IN APPENDIX A AND B AS AN EXTREMELY HAZARDOUS SUBSTANCE.

SECTIONS 311 AND 312 - MAJERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

OUR HAZARD EVALUATION HAS FOUND THIS PRODUCT TO BE HAZARDOUS. THE PRODUCT SHOULD BE REPORTED UNDER THE FOLLOWING EPA HAZARD CATEGORIES: -

### XX IMMEDIATE (ACUTE) HEALTH HAZARD

- -- DELAYED (CHRONIC HEALTH HALARD
- -- FIRE HAZARD
- -- SUDDEN RELEASE OF PRESSURE HAZARD
- -- REACTIVE HAZARI :

UNDER SARA 311 AND 312, THE EFR HAS ESTABLISHED THRESHOLD QUANTITIES FOR THE REPORTING OF HALARIOUS CHEMICALS. THE CURRENT THRESHOLDS ARE: 500 FOUNDS OR THE THRESHOLD FLANNING QUANTITY (TPQ), WHICHEVER IS LOWER, FOR EXTREMELY HAZARDOUS SUBSTRUCES AND 13,000 POUNDS FOR ALL OTHER HAZARDOUS CHEMICALS...

SECTION 313 - DIST OF TOWER CHEMICALS (40 CFR 372): THIS PRODUCT DOES NOT COMMERCIALS.

## TOXIC SUBSTANCES CONTROL ACT (TSCA):

THE CHEMICAL INGREDIENTS IN THIS PRODUCT ARE ON THE 8(B) INVENTORY LIST (40 CFR 710).

FOOD AND DRUG ADMINISTRATIONS FDA) FEDERAL FOOD, DRUG AND COSMETIC ACT: WHEN USE SITUATIONS NECESALITATE COMPLIANCE WITH FDA REGULATIONS, THIS PRODUCT IS ACCEPTABLE UNITED 21 OFR 106.210 DEFCAMING AGENTS USED IN THE MANUFACTURE OF PAPER ALL APERBOARD.

RESOURCE CONSERVATION ALVE-ECONTRY ADDITRORA), 40 OFR 261 SUBPART O & D: DOMSULT SECTION 11 FOR FOR CLROSIFICATION.

FEDERAL WATER POLLUTION CUNTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (FORMERLY SEC. 307-, 40 CFR 118 (FORMERLY SEC. 311):

NONE OF THE INGRELIENTS AND SPECIFICALLY LISTED.

#### CLEAN AIR ACT,

SEC. 111 (40 CFR 81 / SE . 112 40 CFR 61, 1990 AMENDMENTS), SEC. 611 (40 CFR 81, CLR. I RIV II DZONE DEPLETING

#### S BSTANCES):

THIS PRODUCT CONTRING THE FULLY TIME INGREDIENTS COVERED BY THE CLEAN RIR ACT:

POLYPROPYLENE GLYCCL - SECTION 111

#### STATE REGULATIONS:

CALIFORNIA PROPOSITION 68:

Manufacturer: NALCO
Revision Date: 01-23-1996

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS WHICH REQUIRE WARNING UNDER CALIFORNIA PROPOSITION 60.

Internal ID: 000096 File Name: 000096

MICHIGAN CRITICAL MATERIALS:

THIS PRODUCT DOES NOT CONTRIN INGRETIENTS LISTED ON THE MICHIGAN CRIBICAL MATERIALS REGISTER.

STATE RIGHT TO KNOW LAWS:

THE FOLLOWING INGREDIENT ARE DISCUSED FOR COMPLIANCE WITH STATE RIGHT

TO KNOW LAWS:

KEROSENE - 8008-20-6

OXYALKYLATE TRADE SECRET

PARAFFIN WAX 5002-74-2

POLYGLYCOL IFADE SECRET

POLYGLYCOL ACID ESTER TRADE SECRET

STRAIGHT RUN MIDDLE DISTULLATE 64741-44-2

INTERNATIONAL REGULATIONS.

THIS IS A WHMIS CONTROLLED PRODUCT UNDER THE HOUSE OF COMMONS OF CANADA BILL C-70 (CLASS D2B). THE PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S), FROM THE INGREDIENT DISCLUSURE LIST OR HAS BEEN EVALUATED BASED ON ITS TOXICOLOGICAL PROPERTIES. IN CONTROL THE FOLLOWING HAZARDOUS INGREDIENT(S):

CHEMICAL NAME

CAS # \* CONCENTRATION RANGE

KEROSENE

8008-20-6

10-20

PARAFFIN WAX

8002-74-2

1-5

STPAIGHT RUN MIDDLE DISTILLATES 64741-44-2 40-TO

#### SECTION 15 ALDITIONAL INFORMATION

MONE

### HITTON 16 RISK CHARACTERIZATION

DUE TO OUR COMMITMENT TO ROBUST STEVENDSHIP, WE HAVE EVALUATED THE HUMAN AND ENVIRONMENTAL HALAFO AND EXPOSURES OF THIS PRODUCT. BASED ON OUR RECOMMENDED USE OF THIS PRODUCT. WE HAVE CHAPACTERIZED THE PRODUCT'S GENERAL RISK. THIS INFOPMATION ADDITIONAL SHOWING ASSISTANCE FOR YOUR OWN RISK MANAGEMENT PRACTICES. WE HAVE EVALUATED TUB PRODUCT'S RISK AS FOLLOWS:

\* THE HUMAN RISK IS: 17.

Manufacturer : NALCO Revision Date : 01-23-1996

Internal ID: 000096 File Name: 000096

THE ENVIRONMENTAL RICE IS: DW.

ANY USE INCONSISTENT WITH MALCA'S RECOMMENDATIONS MAY AFFECT OUR RISK CHARACTERIZATION. OUR SALES REPRESENTATIVE WILL ASSIST YOU TO DETERMINE IF YOUR PRODUCT APPLICATION OF COMMENDATIONS. TOGETHER WE CAN IMPLEMENT AN APPROXIATE ROOM MANAGEMENT PROCESS.

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT IS TO BE USED IN APPLICATIONS CONSISTENT WITH OUR PRODUCT LITERATURE. INDIVIDUALS HANDLING THIS PRODUCT SHOULD BE INFORMED OF THE RECOMMENDED SAFETY PRECAUTIONS AND SHOULD HAVE ACCESS TO THIS INFORMATION. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROPERTY OF THE SETABLISHED TO INSURE SAFE WORKPLACE OPERATIONS. PLEASE TONSULT YOUR LOCAL SALES REPRESENTATIVE FOR ANY FURTHER INFORMATION.

## SECTION TO BIBLIOGRAPHY AND A DESCRIPTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF SECTION OF

ANNUAL REPORT ON CARDING MUS. .S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH & RAVICE PE 13-135855, 1983.

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CHEMICAL HAZARDS OF THE WORKPLACE, PROCTOR, N. H., AND HUGHES, J. P., EDS., ... J. P. LIPINCOTT COMPANY, M.Y., ERD EDITION, 1991.

DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, SAX, N. IRVING, ED., VAN NOSTRAND REINHOLD COMPANY N.Y. 3TH EDITION, 1996.

IARC MONOGRAPHS IN THE ET LUATE WOLF THE CARCINOGENIC RISK OF CHEMICALS IS MAN, GENEVA: MORLO HER THOSE FAMILIATION, INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

PATTY'S INDUSTRIAL HUGIEL AND TUNIOLEOGY, CLAYTON, G. D., CLAYTON, F. E., EDS., JOHN WILEY AND SON . M. W. ATH EDITION, VOL. 2 A-F, 1994.

REGISTRY OF TOXIC EFFECT: ON CHIMICAL SUBSTANCES, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH . HUTCE, CENTER FOR DISEASE CONTROL, NATIONAL INSTITUTE FOR COCUPATIONAL SAFE F AND HEALTH, 1983 SUPPLEMENT OF 1981-1982 EDITION, Vol. 1-3, 1H, 1 - 1.

TITLE 29 CODE OF FEIRFAL AGULATION PART 1910, SUBPART Z, TOXIC AND HAZARDOUS SUBSTANCES, DOT SATILLAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

THRESHOLD LIMIT VALUES FOR THE TAL TUESTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENTAL NITH THE TOTAL AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIETISTS, THE

INFORMATION ON THIS MSDS HAS CHANGED. THE CHANGES ARE INDICATED BY ASTERISKS ON THE RIGHT SIDE OF ONLY THE CHANGED SECTIONS. THIS IS AN UPDATED MSDS AS

Common Name : 71-D5 ANTIFOAM Manufacturer : NALCO Revision Date : 01-23-1996

Internal ID : 000096 File Name : 000096

REQUIRED BY OSHA'S HAZARI COMMITTECATION RULE 29 CFR 1910.1200.

PREPARED BY: WILLIAM S. TLEY, PHD., DABT, MANAGER, PRODUCT SAFETY

01/23/96 PATE CHANGED: 97 11196 DATE PRINTED:

MALCO CHEMICAL COMPANY

UNENNALCO CENTER

NAPERVILLE, TELINOIS

AREA 708-305-1000

\*\*EL - (505) 393-6161
P. O. Ber 1980
Robbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
A. , NM 88210
\*\*Trict III - (505) 334-6178
\*\*Rio Brazos Road

District IV - (505) 827-7131

~\_C, NM 87410

# New Mexico Energy Nunerals and N ural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-131 Originated 8/8/9

> Submit Origina Plus I Cop to appropriat District Offic

Env. JN: 98059-015

| REQUEST FOR APPROVAL TO ACCEPT                                                                                                                                                                                                                                                                                                                                                                                                        | SOLID WASTE                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1. RCRA Exempt: Non-Exempt:                                                                                                                                                                                                                                                                                                                                                                                                           | 4. Generator (La iversue Compres                                                             |
| Verbal Approval Received: Yes ☐ No ☑                                                                                                                                                                                                                                                                                                                                                                                                  | 5. Originating Site Compressor Site                                                          |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2                                                                                                                                                                                                                                                                                                                                                      | 6. Transporter Envirotech                                                                    |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401                                                                                                                                                                                                                                                                                                                                                               | 8. State Colo - Down Harrison                                                                |
| 7. Location of Material (Street Address or ULSTR)                                                                                                                                                                                                                                                                                                                                                                                     | 8. State Colo > Dow Hapico<br>SWSE Sec. 36, T25N, R. 9W<br>LA Plata County Co.               |
| 9. Circle One:                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                              |
| <ul> <li>A. All requests for approval to accept oil/leld exempt wastes will be accept acceptance; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigner.</li> </ul> | ompanied by necessary chemical analysis to<br>in of origin. No waste classified hazardous by |
| BRIEF DESCRIPTION OF MATERIAL:                                                                                                                                                                                                                                                                                                                                                                                                        | a for dansport.                                                                              |
| Clean pag soil continuinated with Conoco El-Mar 3000)                                                                                                                                                                                                                                                                                                                                                                                 | NOV 2001 SECEIVED OLCON. DIV DIST. 3                                                         |
| SIGNATURE: Waste Management Pacifity Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL                                                                                                                                                                                                                                                                                                                                       |                                                                                              |
| APPROVED BY: Menting The TITLE: Envivo                                                                                                                                                                                                                                                                                                                                                                                                | DATE: 1/14/01  DATE: 11-21-01                                                                |

Pistrice I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pirtict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

# New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-13 Originated 8/8/9

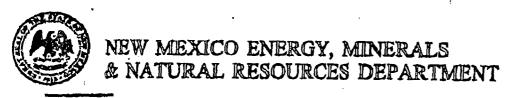
Submit Origin
Plus 1 Cc
to appropriat
District Offi

Env. JN: 98069-015

| DECUEST FOR ARREOVAL TO ACCEPT                                                                                                                                                                                                                                                                                                          | COURT                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| REQUEST FOR APPROVAL TO ACCEPT                                                                                                                                                                                                                                                                                                          | SOLID WASTE                                                                    |
| 1. RCRA Exempt: Non-Exempt:                                                                                                                                                                                                                                                                                                             | 4. Generator (lasiversuc Compre                                                |
| Verbal Approval Received: Yes 🔲 No 🔯                                                                                                                                                                                                                                                                                                    | 5. Originating Site Compressor Si-                                             |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2                                                                                                                                                                                                                                                        | 6. Transporter Envirotech                                                      |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401                                                                                                                                                                                                                                                                 | 8. State Colo > Dem Massico                                                    |
| 7. Location of Material (Street Address or ULSTR)                                                                                                                                                                                                                                                                                       | 8. State Colo > New Massico<br>SWSE Sec. 36, T35N, R9W<br>L& Plata County, Co. |
| 9. Circle One:                                                                                                                                                                                                                                                                                                                          |                                                                                |
| <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommended acceptance.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommended acceptance.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul> | mpanied by necessary chemical analysis to                                      |
| All transporters must certify the wastes delivered are only those consigned                                                                                                                                                                                                                                                             | for transport.                                                                 |
| BRIEF DESCRIPTION OF MATERIAL:  Clean up of soil contaminated with  Conoco El-Mar 3000)                                                                                                                                                                                                                                                 | NOV 2001 RECEIVED OIL CON DIV DIST 3                                           |
| Estimated Volume cy Known Volume (to be entered by the open                                                                                                                                                                                                                                                                             | rator at the end of the haul) ————————————————————————————————————             |
| SIGNATURE: Handfarm Ma Waste Management Facility Authorized Agent Waste Management Facility Authorized Agent                                                                                                                                                                                                                            |                                                                                |
| TYPE OR PRINT NAME: Harlan M. Brown TELE                                                                                                                                                                                                                                                                                                | PHONE NO                                                                       |

|                            |                     | ·              |
|----------------------------|---------------------|----------------|
| (This space for State Use) |                     |                |
| APPROVED BY: Denny Jours   | TITLE: Envirol Engr | DATE: 11/14/0/ |
|                            | /                   | / /            |
| APPROVED BY:               | TITLE:              | DATE:          |

5-16-01; 9:49AM; ENVIROTECH



OIL CONSERVATION DIV AZTEC DISTRICT OFFI 1000 RIO BRAZOS RO AZTEC, NEW MEXICO & (505) 934-6178 Fax (505)5:

Jennifer A. Salisbu Cabinet Secretae

GARY E. JOHNSON GOVERNOR

## **CERTIFICATE OF WASTE STATUS**

| 1. Generator Name and Address:                                                                            | 2. Destination Name:                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Universal Compression<br>3440 morningster Drive                                                           | Envirotech                                                                                                                                                                                                    |
|                                                                                                           |                                                                                                                                                                                                               |
| farmination, Num. 87401                                                                                   |                                                                                                                                                                                                               |
| 3. Originating Site (name):                                                                               | Location of the Waste (Street address &/or ULSTR):                                                                                                                                                            |
| Hullwood Compressor site                                                                                  | SWSE Sec. 36, T35N, R9W                                                                                                                                                                                       |
| 5tate 36-2                                                                                                | na Plata County, colorado                                                                                                                                                                                     |
|                                                                                                           |                                                                                                                                                                                                               |
| Attach list of originating sites as appropriate                                                           |                                                                                                                                                                                                               |
| 4. Source and Description of Waste                                                                        | •                                                                                                                                                                                                             |
| New oil / Dirt                                                                                            |                                                                                                                                                                                                               |
| 200 gals.                                                                                                 |                                                                                                                                                                                                               |
| ·                                                                                                         |                                                                                                                                                                                                               |
|                                                                                                           |                                                                                                                                                                                                               |
| / _                                                                                                       |                                                                                                                                                                                                               |
| Soitt Roclin                                                                                              |                                                                                                                                                                                                               |
| (Print Name)                                                                                              | representative for:                                                                                                                                                                                           |
| 988, regulatory determination, the above describ                                                          | overy Act (RCRA) and Environmental Protection Agency's July, bed waste is: (Check appropriate classification)  XEMPT cilifield waste which is non-hazardous by characteristic is or by product identification |
| nd that nothing has been added to the exempt or                                                           | r non-exempt non-hazardous waste defined above.                                                                                                                                                               |
| or NON-EXEMPT waste the following docume  MSDS Information RCRA Hazardous Waste Analysis Chain of Custody | Other (description):                                                                                                                                                                                          |
| his waste is in compliance with Regulated Levels<br>20 NMAC 3.1 subpart 1403,C and D.                     | of Naturally Occurring Radioactive Material (NORM) pursuant                                                                                                                                                   |
| ame (Original Signature): Scott Faj                                                                       |                                                                                                                                                                                                               |
| nie: Area Supervisor                                                                                      |                                                                                                                                                                                                               |
| 12/10/                                                                                                    |                                                                                                                                                                                                               |

District I .- (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178

Rio Brazos Road

..c, NM 87410

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

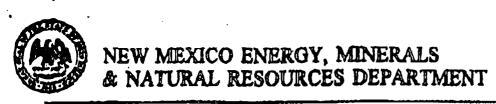
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate District Office

| latrict IV - (505) 827-7131                                                                                                                                                                                                                                                                                                        | Env. JN:                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| REQUEST FOR APPROVAL TO ACCEPT                                                                                                                                                                                                                                                                                                     | SOLID WASTE                                                         |
| 1. RCRA Exempt: Non-Exempt: Penny Foust                                                                                                                                                                                                                                                                                            | η 4. Generator Resources                                            |
| Verbal Approval Received: Yes No No 10116101                                                                                                                                                                                                                                                                                       | 5. Originating Site SAN Juan                                        |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2                                                                                                                                                                                                                                                   | 6. Transporter Rile Tubustvi                                        |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401                                                                                                                                                                                                                                                            | 8. State New Muxico                                                 |
| 7. Location of Material (Street Address or ULSTR)                                                                                                                                                                                                                                                                                  | 99 Rd 6500<br>121+tland, Nu                                         |
| 9. Circle One:                                                                                                                                                                                                                                                                                                                     |                                                                     |
| <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompressed the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul> | ompanied by necessary chemical analysis to                          |
| All transporters must certify the wastes delivered are only those consigned                                                                                                                                                                                                                                                        | for transport.                                                      |
| BRIEF DESCRIPTION OF MATERIAL:                                                                                                                                                                                                                                                                                                     |                                                                     |
| Piboing Sludge - Fron Sulfolo                                                                                                                                                                                                                                                                                                      |                                                                     |
|                                                                                                                                                                                                                                                                                                                                    | OCT 2001 RECEIVED OIL CON. DIV DIST. 3                              |
| Estimated Volume 25 66 cy Known Volume (to be entered by the open                                                                                                                                                                                                                                                                  | erator at the end of the haul) ———————————————————————————————————— |
| SIGNATURE: Harlan M. Brown  TITLE: Landfarm M. Brown  TYPE OR PRINT NAME: Harlan M. Brown  TEL                                                                                                                                                                                                                                     | EPHONE NO. 505-632-0615                                             |
|                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| lamara a mia, as s                                                                                                                                                                                                                                                                                                                 |                                                                     |

(This space for State Use)



OIL COMBERVATION DIVISIDA AKTEO DISTRIOT OFFICE 1000 RIO BRAZOS ROAD AKTEG, NEW NEXICO B7010 (808) 834-8178 FAX [808]234-6170

GARY E. JOHNSON GOVERNOR JENNIPER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

| 1. Generator Name and Address:                                                                                                 | 2. Destination Name:                                               |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|--|
| Western Gas Resources                                                                                                          | Envirotech Inc.                                                    |  |  |
| P.U. BORTO 99 Rd 6500                                                                                                          | Soil Remediation Remediation Facility                              |  |  |
|                                                                                                                                | Landfarm #2, Hilltop, New Mexico                                   |  |  |
| Kirtland, N.W. 87417                                                                                                           | 5796 IIS Hay 64 Farmington NM 87401                                |  |  |
| 3. Originating Site (name):                                                                                                    | Location of the Waste (Street address &/or ULSTR):                 |  |  |
| 73. Originating Site (name): Pig Reciever San Juan River                                                                       | Plan                                                               |  |  |
| 99 Rd. 6500 Kirthard N.M                                                                                                       | · P7417                                                            |  |  |
| Attach list of originating pites se appropriate                                                                                |                                                                    |  |  |
| 4. Source and Description of Waste                                                                                             | < 10.1                                                             |  |  |
| Pigging Sludge - Iron                                                                                                          | Jultide                                                            |  |  |
| Apl There                                                                                                                      | ropropentative for                                                 |  |  |
| WESTERN GAS RES.                                                                                                               | representative for:                                                |  |  |
| Mestern LAS Pes                                                                                                                | do hereby certify that,                                            |  |  |
| according to the Resource Conservation and Recove                                                                              | ry Act (RCRA) and Environmental Protection Agency's July,          |  |  |
| 1988, regulatory determination, the above described                                                                            | 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 no                                                                            | n-exempt non-hazardous waste defined above.                        |  |  |
| For NON-EXEMPT waste the following documents  MSDS information  RCRA Hezerdous Waste Analysis  Chain of Custody                | ition is attached (check appropriate Items):  Other (description): |  |  |
|                                                                                                                                |                                                                    |  |  |
| This waste is in compliance with Regulated Levals of to 20 NMAC 3.1 subpart 1403.C and D.                                      | Naturally Occuming Redicactive Material (NORM) pursuant            |  |  |
| Name (Original Signature): Of those                                                                                            |                                                                    |  |  |
| Title: Fistd/maint. Supreviser                                                                                                 |                                                                    |  |  |
| Date: 10/15/01                                                                                                                 |                                                                    |  |  |

## **HIGH DESERT SAFETY**

301 SOUTH FRONTIER - 87413 BLOOMPIELD, NEW MEXICO PHONE: (505) 632-3633 - CELL: (505% 330-0614 ...

## NORM SURVEY DATA SHEET

| Facility / Location: 5.3                  | · River Pigging S      | hdge I      | Date: 10 -15 -4/      |      |
|-------------------------------------------|------------------------|-------------|-----------------------|------|
| Meter Model: TECHNIC                      | AL ASSOCIATES - PI     | JG-1AB -    | SERIAL NUMBER: 076283 |      |
| Detector Model: TECHN                     | ICAL ASSOCIATES -      | P-8 - SEI   | RIAL NUMBER: 086288   |      |
| Battery check: (X)                        |                        | •           |                       |      |
| Background Radiation Le                   | vel: 0.07 mR           | <b>I</b> hr |                       |      |
| Description of material su<br>S/4092 Spom | urveyed:  SEHling tank | •           |                       | .127 |
| Item / Material Surveyed                  |                        |             |                       |      |
| Waste Material:                           | approx. gals           | 12          | approx. cubic yards   |      |
| Equipment:  Manufacturer:                 |                        |             | mR/hr. 0 . 0 7        |      |
| Serial No:                                |                        | <del></del> |                       |      |
| Description;                              |                        |             |                       |      |
| Identifier No:                            |                        |             |                       |      |
| Grid Location: _                          |                        |             |                       |      |
| Comments:                                 |                        |             |                       |      |
| Survey Conducted by:                      | ••••••                 |             |                       |      |
|                                           | (signature)            |             |                       |      |

WESTERN GAS RESOURCES \_ ID:15055986210 \_ \_ \_ OCT 15'01 \_ 13:18 No.001 P.01

Western Cas liesources, Inc.

Post Office Box 70, Kirtland, NM 87417 (505) 598-5601 Fax (505)-598-6210



| HARIEN                                     |   |
|--------------------------------------------|---|
|                                            |   |
| TOTAL NUMBER OF PAGES INCLUDING COVER PAGE | 8 |
| DATE 10/15/01 TIME 2:10 PM                 | _ |
| SENDER: Whose                              |   |

District I - (505) 393-6161 P. O. 30x 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 "trict III - (505) 334-6178 Rio Brazos Road ~\_ .c, NM 87410

APPROVED BY:

APPROVED BY

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

Env. JN: 92187

| Env. JN: <u>92187</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SOLID WASTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4. Generator Western Gas Resou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5. Originating Site ANETH PIGLA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6. Transporter EDUIROTECH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8. State Utah (NovapoNazion).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Yu mile South of Elkhorn Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ompanied by a certification of waste from the ompanied by necessary chemical analysis to not origin. No waste classified hazardous by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| d for transport.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CCT 2001 ECEIVED SIL CON. DIV DIST. 3  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z LILLER  LE Z |
| DATE: / O·15·0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |





## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1808 RIG SMAZOS ADAD AZTEC, NEW MEZICO 87618 [808] 834-8178 FAX [888]334-8170

GARY E. JOHNSON GOVERNOR JENNIFER A. SALISBURY CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

| 1. Generator Name and Address:                                             | 2. Destination Name:                                                                 |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Western Gas Resources                                                      | Envirotech Inc.                                                                      |
| P.U. BOK70 99 Rd 6500                                                      | Soil Remediation Remediation Facility                                                |
| Kirtland, N. m. 87417                                                      | Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington NM 87401                 |
| 3. Originating Site (name):                                                | Location of the Waste (Street address &/or ULSTR):                                   |
| ANETH Pig LAUNCHER 4 M                                                     | ile South of EIKHORN GAS PLANT                                                       |
| AT MONTEZUMA.                                                              |                                                                                      |
| Accept hat of originating sites as appropriate                             |                                                                                      |
| 4. Source and Description of Waste                                         | < 101                                                                                |
| Pigging Sludge - Iron                                                      | Jultide                                                                              |
| , , , , ,                                                                  | •                                                                                    |
| ·                                                                          |                                                                                      |
|                                                                            |                                                                                      |
|                                                                            |                                                                                      |
| 11                                                                         |                                                                                      |
| 1, ARIJA THORSON (Print Name)                                              | representative for:                                                                  |
|                                                                            | do hereby certify that,                                                              |
| WESTERN GAS RESOURCES                                                      | ary Act (RCRA) and Environmental Protection Agency's July,                           |
| 1988, regulatory determination, the above described                        | waste is: (Check appropriate deswification)                                          |
|                                                                            |                                                                                      |
| EXEMPT olifield waste NON-EXE analysis o                                   | MPT oilfield waste which is non-hazardous by characteristic reproduct identification |
|                                                                            | an exempt non-hazardous waste defined above.                                         |
| and that nothing has been added to the exempt or no                        | on-axampt non-nazaroods waste commo                                                  |
| For NON-EXEMPT waste the following document                                | ation is attached (check appropriate items):                                         |
| MSDS Information                                                           | Other (description):                                                                 |
| RCRA Hazardous Waste Analysis                                              | <del></del>                                                                          |
| Chain of Custody                                                           |                                                                                      |
|                                                                            |                                                                                      |
|                                                                            | Beforelys Material (NORM) quiguant                                                   |
| This waste is in compliance with Regulated Levels of                       | Naturally Occurring Radioactive Material (NORM) pursuant                             |
| to 20 NMAC 3.1 subport 1403,C and D.                                       |                                                                                      |
|                                                                            |                                                                                      |
| Alana (Signatura):                                                         |                                                                                      |
| Name (Ottiginal Signature).                                                |                                                                                      |
| THE ENDORSET SUPPRISOR                                                     |                                                                                      |
| THIO. TELLINING                                                            | · · · · · · · · · · · · · · · · · · ·                                                |
| Name (Original Signature):  Title: Field/Mainte Suprevisor  Date: 10/15/01 |                                                                                      |
| Dete                                                                       |                                                                                      |
|                                                                            | Ø                                                                                    |

## **HIGH DESERT SAFETY**

301 SOUTH FRONTIER - 87413 BLOOMPIELD, NEW MEXICO PHONE: (505) 632-3633 - CELL: (505% 330-0614

## NORM SURVEY DATA SHEET

| Facility / Location: #NETh Pig LANNChen Date: 10-15-01              |     |
|---------------------------------------------------------------------|-----|
| Moter Model: TECHNICAL ASSOCIATES - PUG-1AB - SERIAL NUMBER: 076283 |     |
| Detector Model: TECHNICAL ASSOCIATES - P-8 - SERIAL NUMBER: 086288  |     |
| Battery check: (X)                                                  |     |
| Background Radiation Level: 0.07 mR/hr                              |     |
| Description of material surveyed:  Sludge from Settling fant        |     |
| Item / Material Surveyed                                            |     |
| Waste Material:approx. gals4 approx. cubic yards                    |     |
| Equipment: mR/hr. 0.89 Manufacturer:                                |     |
| Serial No:                                                          |     |
| Description:                                                        |     |
| Identifier No:                                                      |     |
| Grid Location:                                                      |     |
| Comments:                                                           | ~~~ |
| Survey Conducted by: Gary W. Howe  Language  (signature)            | ~   |

# WESTERN GAS RESOURCES, INC. SOLID WASTE DISPOSAL PLAN 20" ANETH TO RED MESA PIPELINE REPAIR PROJECT SAN JUAN COUNTY, UTAH

The following Solid Waste Disposal Plan is hereby submitted to the office of the Navajo Natlon Environmental Protection Agency (NNEPA) in anticipation of Western Gas Resources, Inc. (Western) initiating ditching, pipe laying and Installation of a 6" pipeline that will be utilized as repair of an existing 20" pipeline. The pipeline route will follow an existing pipeline corridor right-of-way (ROW) located over an approximate twelve and one-half mile route between Texaco's Aneth Gas Plant and the Navajo Nation Red Mesa Chapter house in San Juan County, Utah.

This plan is intended to supplement, and not to replace, all other documents, agreements and permits regarding the repair of the subject 20" pipeline such as the Plan of Development, the Storm Water Discharge Permit, the Navajo Land Clearing, Excavation and Reclamation Stipulations or any other applicable documents.

During and following all surveying, clearing, ditching, construction, backfilling and restoration operations, Western and its contractors will reference this document in order to minimize and dispose of any solid waste that may be generated as a result of this project. Solid waste shall include trash, construction debris, human waste, containers and any other foreign materials that may be generated during construction activities related to the installation of the 6" pipeline or abandonment activities associated with the 20" pipeline.

## Western, or its contractor, will:

- utilize portable sanitary facilities for all human wastes generated during the project;
- remove all construction debris including lumber, paper, plastics, packaging materials, pipe, metal, containers of any sort and other debris that may be generated as a result of the project;
- utilize portable trash receptacles during the construction and clean-up activities to minimize the accumulation and spreading of any solid wastes or other miscellaneous items on the work site;
- dispose of all collected materials at an approved, off-site, non-Navajo land-fill or other qualified off-site, non-Navajo disposal facility; and
- conduct periodic site surveys during construction and a final site clean-up after all activities associated with this project are completed to assure that no solid wastes remain on the site.

OCT 15'01

Any large solid objects uncovered during trenching operations will either be covered during backfilling operations or removed from the site to achieve a natural grade when operations are complete.

No chemicals, solvents or other hazardous substances are anticipated to be utilized during the construction process, however, if there are any discharges from any equipment during construction operations, they will immediately be cleaned up and disposed in a proper manner. Items in this category would include motor oils, lubricating fluids, fuels, anti-freeze or any other chemicals or fluids utilized in construction equipment or in the construction process.

HARLED YOU MAY WANT TO BRING PAPER WORK
THAT YOU ARE A LICENSED FICALITY FOR Solids DISPOSA!

Of thous

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 "-trict III - (505) 334-6178 Rio Brazos Road c, NM 87410 مدر

## New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Čopy to appropriate District Office

Env. JN: 97057-047

| trict IV - (505) 827-7131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Env. JN: <u>91057-</u> 047                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| REQUEST FOR APPROVAL TO ACCEPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SOLID WASTE                                     |
| 1. RCRA Exempt: Non-Exempt: 10-11-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4. Generator EPFS                               |
| Verbal Approval Received: Yes No No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5. Originating Site Valencia #3                 |
| 2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6. Transporter TBA                              |
| 3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8. State 1) we prosper co                       |
| 7. Location of Material (Street Address or ULSTR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NWY See LY TEBARYU                              |
| <ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted acceptation; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted accepted a</li></ul> | ompanied by necessary chemical analysis         |
| All transporters must certify the wastes delivered are only those consigned SRIEF DESCRIPTION OF MATERIAL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | d for transport.                                |
| Soil contaminated with produces ques location (condense de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15 18 19 W                                      |
| stimated Volume — Z — cy Known Volume (to be entered by the ope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RECONDO ST. ST. ST. ST. ST. ST. ST. ST. ST. ST. |
| SIGNATURE: Waste Management Facility Authorized Agent  TYPE OR PRINT NAME: Harlan M. Brown  TEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DATE: 16-11-01  EPHONE NO. 505-632-0615         |
| (This space for State Use)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 |

APPROVED BY:

APPROVED BY:

## **CERTIFICATE OF WASTE STATUS**

| 1. Generator Name and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Address:                       | 2. Destination Name:                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------|
| i. Generalor name and i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | muuress,                       | 2. Destination Pame.                                 |
| El Paso Field Se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ervices Co.                    | Envirotech Soil Remediation Facility                 |
| 614 Reilly Aver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                | Landfarm #2                                          |
| Farmington, NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A 87401                        | Hilltop, New Mexico                                  |
| 3. Originating Site (name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9):                            | Location of Waste(Street address &/or ULSTR):        |
| Valencia #36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                | NW/4, Section 14, T28N, R4W, Rio Arriba Co., NM      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                                      |
| Attach list of originating sites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |                                                      |
| 4. Source and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | n of Waste                     |                                                      |
| Approximately 20 cubic y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ards of soll contaminate       | ed with produced water and hydrocarbons              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                                      |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | David Bays                     | representative for:                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Print Name)                    | Toprosonitativo for                                  |
| El D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Field Onedan                   |                                                      |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |                                                      |
| NON-EXEMPT oilfield waste which is non-hazardous by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |                                                      |
| X EXEMPT Olifield v                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | vaste                          | characteristic analysis or by product Identification |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                                      |
| and that nothing has been added to the exempt or non-hazardous waste defined above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |                                                      |
| For MON EVENDT works only the following do appearation in the short of fall and a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco |                                |                                                      |
| For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                      |
| MSDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Information                    | Other (description)                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Hazardous Waste Analof Custody | lysis                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | or outlouy                     |                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\overline{}$                  | ^                                                    |
| Name (Original Signati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ure): Daw                      | il Ban-                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                                      |
| Title:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Principal                      | Environmental Scientist                              |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | te: October 10, 2001           |                                                      |
| Vale.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | October                        | 10, 2001                                             |