NM1-10-A

 $\mathbf{C-138}$

Date: 1998

Tierra Land Farm

			, , , , , , , , , , , , , , , , , , ,	
Box 1940 bbs. NM 88241-1980		ew Mexico	Donautmont	Form C-138.
riet Π (505) 748-1283 S. First a, NM 88210 (505) 334-6178) Rio Brazos Road ∞, NM 87410 + 1V (505) 827-7131	2040 Sou Santa Fe,	Natural Resources ervation Division uth Pacheco Street New Mexico 87505 05) 827-7131	Department	Submit Orig: Plus 1 Copy to appropria: District Offic
	REQUEST FOR APPRO	VAL TO ACCEPT SC	LID WASTE	98065
. RCRA Exempt:	X Non-Exempt: DA	TE: 6-30-98	4. Generator	• • •
Verbal Approval R Management Fa	eceived: Yes X No cility Destination	By: A. Foust	fra −∆ 5. Originating Si	(VG
TIERRA	NVILONMENTAL LAN	NFARM	ARKANSAS	
Address of Facil	ty Operator		6. Transporter	
	100 Aztoc NM	87410	DAWN	
. Location of Mate	rial (Street Address or ULS	TR)	8. State	
5-2, T-	32N, R-9W LAP	LATTA C	Coloenso	
Check One				
the mater will be app Il transporters mu RIEF DESCRIPTION	ats for approval to accept non-exempt was at is non-hazardous and the Generator's c proved. JSt Certify that the wastes of	ertification of origin. No waste o	lassified as hazardous by lis	ting or testing r transport.
ΓΛ	JUL 1 1998	STROAM No Hydrocare bows	, RECOVERN	b le
· · ·	DIST. 3			
stimated Volume	Mown Volu	me (to be entered by the opera	itor at end of haul):	yai ³
NATURE	TITLE	ENV. SPECIM	LIST DATE	6-30-98
PE OR PRINT NAME	BLAINE Williams			
(This space for State Use				
PROVED BY	M. J. Kent TITLE FO	eologist	DATE	11/98
PROVED BY	hie Busch_TITLE ?		DATE	158
			<i>,</i>	<

-	\
	1

CERTIFICATE FROM OUT OF STATE AGENCY AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the enclosed information concerning the oilfield waste material from location_<u>Arkansas Loop Plant-LaPlata Ctv</u>, <u>Colo</u> and agree that by its description it is non-hazardous and therefore exempt from regulation by the Resource Conservation and Recovery Act (RCRA) and my jurisdictions rules, regulation or statute.

x The material is exempt from regulation because it is classified as nonhazardous oilfield waste by definition.

The material is exempt from regulation by characteristic analyses.

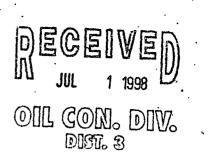
The material is exempt from regulation by product identification.

THEREFORE:

As a representative for <u>Bureau of Indian Affairs</u> I have no objections to the material being removed to New Mexico.

NAME: Danny R. Breuninger		nt
SIGNATURE: Multime	DATE:/7/5/	IM
AGENCY: <u>Bureau of Indian Affairs</u>		181
ADDRESS: PO Box 315, Ignacio, CO 81	137	-
PHONE: (970) 563-4514		
	DECEIVED	
······	IN JUL 1 1998	
	OIL CON. DIV. DIST. 3	

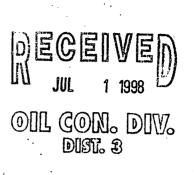
104MM



CERTIFICATE OF WASTE STATUS

	2. Destination Name:
Red Cedar Gathering Company	
26266 Hwy. 160 Durango, Co 81301	TIERRA ENVIRONMENTAL CO-TAC, LANSFARM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR);
, Arkansas Loop Natural GaS Trea	ting Facility LaPlata County
Section 2 of 32N 9W	oring ractificy, Dariata County
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Contaminated soil due to upset oil from natural gas stream (so	and spill of water coal fines and oil is discolored with NO free oil)
I,James_H. Mayo	representative for:
(Print Name) Red Cedar Gathering Company	do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	iry Act (RCRA) and Environmental Protection Agency's July,
XX EXEMPT cilfield waste NOM-EXE	
	MPT official weste which is non-hazardous by characteristic r by product identification
	r by product identification
analysis c	r by product identification on-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 docum MSDS Information RCRA Hazardous Waste Analysis	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature):	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature):MMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature):MMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):

				· · · · ·	·· · ·	
נונט איניגע (בעב) איניייי אינגע (בעב) אינייייייייייייייייייייייייייייייייייי		New Me	vico	,	, f	Orm C-138
	2040	na Natura Conservatio D South Pacl	l Resources on Division neco Street exico 87505	Department		ouonut Orig: Plus 1 Copy to appropria: District Offic
R	EQUEST FOR APP	PROVAL TO	ACCEPT SC	LID WASTE	98064	/
. RCRA Exempt: X	Non-Exempt:	DATE: 6	124/98	4. Generator	•	• .
Verbal Approval Receiv	ved Yes No	By:	T. net)		
Management Facility	Destination			5. Originating	g Site	•
Address of Facility O	perator			6. Transport	er	
. Location of Material	() Street Address or ()	ULSTR) 5a	in Juan County	8. State		
Check One		<u>BC.R. 7.</u>	87401	P	,	· ·
A. All requests for a	pproval to accept oilfield exe	mpt wastes will be	••••	certificate of waste from	n the Generator:	one
B. All requests for a the material is no will be approved.	pproval to accept non-exemp n-hazardous and the Genera	ot wastes must be tor's certification (accomanied by nece of origin. No waste cl	essary chemical analys lassified as hazardous	es to prove by listing or test:	ing
All transporters must c	ertify that the was	tes delivere	ed are only th	ose consigned	d for trans	port.
RIEF DESCRIPTION OF TH	E MATERIAL:			e.	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • •
On line NGL Pr	oduct Sweeteni	ny Compo	and Compo	onent		
Black Granular		2		de N ji)EIVE	D
					ON. DI	V.
stimated Volume16	yd ³ Known	Volume (to be e	ntered by the operat	tor at end of haul):		yd ³
NATURE	ΤΙΤΙ	E <u>Enviro</u>	mental Sp	ecialist DAT	Е <u>_6-24</u>	-98
PE OR PRINT NAME	Tim Nobi	5	TELEPH	IONE NO(5	<u>05) 334-889</u>)4
(This space for State Use)						
PROVED BY Denny	B. Jen TITLE	Geolo	SIST	DATE _		
PROVED BY	Busch_TITLE			DATE	<u>]/2/9</u>	263
/ / /				- <u>- · · · · · · · · · · · · · · · · · ·</u>		



1. Generator Name and Address:	2. Destination Name:
Conoco Inc	1
POBOX 217 (61 Road 4900)	Tierra Environmental Co. Inc 420 Rd 3100
Bloomfield, NM 87413	Actic NM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
EPFS Chaco Plant	Conoco Arrownied Pump Station
Citag Hant	948 CR 7100
	Farmington, NH 87401
Attach list of originating sites as appropriate	87401
4. Source and Description of Waste	
10 m 1-	
On line NGL Product sweetening co	mpon ant
black granular substance. The sour	
Cille Substance, The SOUV	re is Conoco's tinal in let
filter within EPFS Chan	co Plant
I, <u>Don Lostak</u> (Print Name)	representative for:
(Print Name)	do hereby certify that,
	ry 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.
RCRA Hazardous Waste Analysis	nentation is attached (check appropriate items): Other (description):

Date:

9)

<u>וטוט-כככ (כטכ) 101</u> P.O. Box 1940	New	Mexico	•	form C
Hobbs. No.1 88241-1980 District II (505) 748-1202	Energy Minerals and Na		Department	- namero
811 S. First Artesia, NM 88210		vation Division		
<u>District III</u> (505) 334-6178		Pacheco Street w Mexico 87505		Submit Orig Plus 1 Copy
1000 Rio Brazos Road Aztec, NM 87410	(505)	827-7131		to appropria District Offic
<u>District IV</u> (505) 827-7131				nezis seriata penti faren este seter unternal saturata balante.
	REQUEST FOR APPROVA		DLID WASTE	98062
1. RCRA Exempt: X	Non-Exempt: DATE	: 6-22-98	4. Generator	
Verbal Approval Rec		D. Foust	PNM	
2. Management Facil	_ ·		5. Originating	Site
3. Address of Facility	ciconmental handfar	M	City of Farming	
	-		6. Transporter	
7. Location of Materia	Aztec, San Juan County al (Street Address or ULSTR	, NM 87410	11 .	rvices
		· ·	8. State	
	35, T-30N, R-13W	San Juan Co.	New Mex	ico
9. <u>Check One</u>				
A. All requests f certificate per	or approval to accept oilfield exempt wastes job.	will be accompanied by a	certificate of waste from th	e Generator: one
B. All requests f the material is will be approv	for approval to accept non-exempt wastes in s non-hazardous and the Generator's certific red.	ust be accommend by nece ation of origin. No waste c	essary chemical analyses lassified as hazardous by	to prove listing or testing
All transporters must	t certify that the wastes deli	vered are only th	iose consigned f	or transport.
BRIEF DESCRIPTION OF		Jacobil Hold Commission of South States	an a	nan marina na tang sarat sa
Soils from	Pit Remediation			
		DECEIV	EM	
		UU JUN 2 4 199	98 B	
		oil con. I	DUV	
· · · · · · · · · · · · · · · · · · ·		DIST. 3		
Estimated Volume	7yd ³ Known Volume (to	be entered by the opera	tor at end of haul):	yd ³
SIGNATURE		roomental Spec		6-22-98
TYPE OR PRINT NAME	The Wahz	*	IONE NO. (505	-
(This space for State Use)		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
21	NSTONT - Ca	la int		12-192
20	12 ton TITLE Geo		DATE <u>(</u>	125/10
APPROVED BY	- Devecto TITLE	1.~	DATE	<u> </u>

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· · · · · · · · · · · · · · · · · · ·	• • •
1. Generator Name and Address:	2. Destination Name:
PNM Gas Services	Tierra Environmental Co., Inc.
603 W. Elm	420 C.R. 3100
Farmington, NM 87401	Aztic, San Juan County, New Mexico 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
City of Farmington #22	Unit D Sec-35, T-30N, R-13W
	San Juan County, NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Soils from Pit Remediation	
	· · ·
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
1. <u>Gary S. Cook</u> (Print Name) <u>PNM Environmented</u>	representative for:
(Print Name)	
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	<b>APT</b> 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 docur MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature): Mand. Cont. Title: <u>En-iver</u> marked d.pt.	

form C-138 -----New Mexico Box 1940 os, NM 88241-1980 **Energy Minerals and Natural Resources Department** (505) 748-1283 **Oil Conservation Division** S. First a. NM 88210 **2040 South Pacheco Street** Submit Origi (505) 334-6178 Santa Fe, New Mexico 87505 Plus 1 Copy JUN 24 ) Rio Brazos Road to appropria: (505) 827-7131 x, NM 87410 District Offic OIL CON. DIV + IV (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 980 RCRA Exempt: X Non-Exempt: **DATE:** 4. Generator 6-18-98 Verbal Approval Received: Yes X No By: A. Favsr BURIN N RESEVENCES Management Facility Destination 5. Originating Site TIERRA Environmentati LANSFARM VAL VEEDE PLANT Address of Facility Operator 6. Transporter 420 CR 3100 Acted NM 87410 DOWN TRUCKIN Location of Material (Street Address or ULSTR) 8. State VALVERAE PLANT Rloom field Nm Check One (A) All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator: one certificate per job. B. All requests for approval to accept non-exempt wastes must be accomanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.

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

IEF DESCRIPTION OF THE MATERIAL:

ROVED BY

AmINE RECTAINER CONTAMINATED

Source

DATE

30 stimated Volume Known Volume (to be entered by the operator at end of haul): TITLE ENV. SPECIALIST 6-18-98 NATURE DATE Slating Williams **E OR PRINT NAME** (505) 334-8894 TELEPHONE NO. (This space for State Use) Geologi3 ROVED B in

TITLE

1. Genera	ator Name and Address:	2. Destination Name:
	lington Resources	2. Destination Name.
	5 East 30 th Street	Tierra Environmental
	mington NM 87401	
	·	
Ì		
3. Origin	nating Site (name):	Location of the Waste (Street address /or ULSTR):
Val Ve	rde Plant	
vai vei		Val Verde Plant
4. Source	e and Description of Waste:	
	RECLAIMER	
		· ·
_		
I,	Blair King	representative for:
	Burlington Resources	do hereby certify that,
accor	ding to the Resource Conservation and Recovery	Act (RCRA) and Environmental Protection Agency's July,
	regulatory determination, the above described w	
1700,	regulatory determination, the above described w	aste is. (oneen ine appropriate ensiste anon)
Σ F	EXEMPT oilfield waste 📃 NON-EXEM	MPT oilfield waste which is non-hazardous by characteristic
	analysis or l	by product identification.
and that	t nothing has been added to the exempt or non-ex	empt non-hazardous waste defined above.
		n an
Ee- NO	N EVEMPT waste only the following documents	tion is attached (shack appropriate iterra).
FOFINC	<b>DN-EXEMPT</b> waste only the following documenta	nion is anached (chech appropriate items):
_	MSDS Information	Other (description):
	RCRA Hazardous Waste Analysis	_
	Chain of Custody	
		·
	A = A	
	Driginal Signature): Blain 15 ing	
Title: C	Operator Specialist	
	hursday, June 18, 1998	

Roy 1940 New Mexico	Form C-138
Box 1940 Energy Minerals and Natural Resou	urces Department
The I (505) 748-1283 Oil Conservation Divis	sion
a, NM 88210 2040 South Pacheco Str	
(505) 334-6178 Santa Fe, New Mexico 87	7505 Plus 1 Copy
0 Rio Brazos Road x. NM 87410 (505) 827-7131	to appropria District Offic
riet IV (505) 827-7131	
REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
. RCRA Exempt: X Non-Exempt: DATE: 6-16-98	3 4. Generator
Verbal Approval Received: Yes No By: D. Fou	5+ i rce
Management Facility Destination	5. Origin ing Site
C / I L t	
Address of Facility Operator	6. Transporter
4	· · · · · · · · · · · · · · · · · · ·
. Location of Material (Street Address or ULSTR)	8. State
- 1-	/
<u>Check One</u>	
A. All requests for approved to decept difficite exempt wastes will be accompany certificate per job.	nied by a certificate of waste from the Generator; one
B. All requests for approval to accept non-exempt wastes must be accomanie the material is non-hazardous and the Generator's certification of origin. N will be approved.	ed by necessary chemical analyses to prove to waste classified as hazardous by listing or testing
All transporters must certify that the wastes delivered are	only those consigned for transport.
RIEF DESCRIPTION OF THE MATERIAL:	
Sludges from Produced water at inje	ction Facilities
5.00-3.00	<b>'</b>
	DEARINGA
	DECEIVED
	M JUN 2 4 1998
	ON CON DIV
750 - 201	OIL CON. DIV.
stimated Volume 50 67 565 Known Volume (to be entered by	the operator at end of haul): $640815$
	al Specialist DATE 6-16-98
PE OR PRINT NAME I'm Nobis	TELEPHONE NO(505) 334-8894
(This space for State Use)	
PROVED BY DEWY B. FORTITIE GRAINGIS	ST DATE 6/25/98
PROVED BY THE THE TITLE GEOLOGIC	
PROVED BY me ). TITLE1	DATE

.

4

1. Generator Name and Address:		2. Destination Na	ame:			
Burlington Resources		Tierra Landf	arm			
3535 East 30 th Street						
Farmington NM 87401						
3. Originating Site (name):		Location of the	Waste (Street	address	/or	
		ULSTR):				
Jillson SWD #1		Jillson SWD #1				
1	Unit: F	Section: 08	Township:	024N	Range:	003W
4. Source and Description of Waste:			····-			
Produced water from injection facility.						
Froduced water from injection facility.						
			•			
I, Wayne Ritter				repre	sentative	for:
Burlington Resources				do hei	reby certi	ifv that
		······	4-1 D		-	ny mai,
according to the Resource Conservation and Recovery				Agency	's July,	
1988, regulatory determination, the above described <b>v</b>	waste is: (Cho	eck the appropriate clas	sification)			
EXEMPT oilfield waste     Image: Second state   Image: Second state	MPT oilfield	waste which is no	n-hazardous b	v charae	cteristic	
		dentification.		•		
and that nothing has been added to the exempt or non-e	exempt non-h	azardous waste de	fined above.			
					1 A.	* *
For NON EVENDT most only the following document	tation is attac	h - 1 ( - h h				
For NON-EXEMPT waste only the following document	tation is attac	ned (chech appro	priate items):			
MSDS Information	Othe	er (description):				
<b>RCRA</b> Hazardous Waste Analysis						
Chain of Custody						
	ere en en				<u></u>	N
Name (Original Signature): (1) + At						
Name (Original Signature): Wayne fit	<u>_</u>					
Name (Original Signature): Warne Att Title: Specialist						
Name (Original Signature): Wayne Att Title: Specialist Date: Tuesday, June 16, 1998	 					

. Box 1940	ew Mexico		Form C-138
bbs, NM 88241-1980 Energy Minerals and		Department	<ul> <li>jumpter 1/18/03</li> </ul>
20001 11 (505) 7.1X-17X4	ervation Division	o opur timent	
a. NM 88210 2040 Sou	uth Pacheco Street		Submit Orig
JU RIO Brazos Road	New Mexico 87505		Plus 1 Copy
x. NM 87410 (50 Trief IV (505) 827-7131	05) 827-7131		to appropria District Offic
(303) 0277 131			
REQUEST FOR APPRO	VAL TO ACCEPT SO	LID WASTE	18 <i>05</i> 7
RCRA Exempt: X Non-Exempt: DA	TE: 6-15-98	4. Generator	
	By: Rebiasons	Burklin ton	RESOURCES
Management Facility Destination		5. Originating Site	
THERE Environmental CANAFA	en Facili	VAL VERAE	PLANT
Address of Facility Operator		6. Transporter	
420 CC 3100 Aztec Nr	•	FREEME	en
. Location of Material (Street Address or ULS	TR)	8. State	
VAL VERAE PLANT		m	
Check One	· · · ·	· · ·	
A) All requests for approval to accept oilfield exempt wa	astes will be accompanied by a c	ertificate of waste from the Ge	nerator: one
B. All requests for approval to accept non-exempt wast the material is non-hazardous and the Generator's co will be approved.	es must be accomanied by neces ertification of origin. No waste cla	ssary chemical analyses to pro assified as hazardous by listing	g or testing
Il transporters must certify that the wastes of	delivered are only the	ose consigned for t	ransport.
RIEF DESCRIPTION OF THE MATERIAL:			
	TERING Am	NE	
DECEIVEN			
JUN 2 4 1998 -			
OIL CON. DIV.			
DIST. 3			
stimated Volumeyd ³ Known Volum	ne (to be entered by the operato	or at end of haul):	yd ³
	- como si	,	
	Env. Special	DATE	<u>~is-48</u>
PEOR PRINT NAME BLAINE Williams	TELEPHO	ONE NO. (505) 33	4-3894
(This space for State Use)			
PROVED BY DEMY & Rent TITLE G	eologist	DATE	22/98
PROVED BY Jun Durent TITLE	Ľ.	DATE	E'

1. Generator Name and Address:	2. Destination Name:
Burlington Resources	
3535 East 30 th Street	Tierra Environmental
Farmington NM 87401	
3. Originating Site (name):	Location of the Waste (Street address /or
	ULSTR):
Vai Verde Plant	Val Verde Plant
	·
4. Source and Description of Waste:	
FILTERING AMINE	
· ·	
······································	
I, Bert Gardenhire	representative for:
-7	· · · · · · · · · · · · · · · · · · ·
Burlington Resources	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 w	vaste is: (Check the appropriate classification)
•	
EXEMPT FORMER Waste	MPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification.
and that nothing has been added to the exempt or non-ex	empt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documenta	ation is attached (chech appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
Name (Original Signature): Best Stanleuk	
Title: Maintenance Operator	
Date: Monday, June 15, 1998	

	•		
Box 1940 Box 1940 bbs. NM 85241-1980 rict Π (505) 748-1283 S. First a, NM 88210 (505) 334-6178 Rio Brazos Road ∞, NM 87410 + IV (505) 827-7131	New Mexico Energy Minerals and Natural Resources I Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Department	Submit Orig: Plus 1 Copy to appropria: District Offic
	REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE	9805
. RCRA Exempt:	X Non-Exempt: DATE: 6-13-98	4. Generator	•
Verbal Approval R	eceived: Yes No By: 1 Fous-	SUNCO I	Evering
Management Fa	· · · _	5. Originating S	
Address of Facili 420 C	ity Operator R 3100 Artec NM 87410	6. Transporter Suwco k	rle.
	erial (Street Address or ULSTR)	8. State	;
17497 \$	tuy 172 Ignado Co. 81137	Cole	
<u>Check One</u>			
A. All reques certificate	sts for approval to accept oilfield exempt wastes will be accompanied by a oper job.	certificate of waste from the	e Generator: one
B. All reques the matern will be app	sts for approval to accept non-exempt wastes must be accomanied by nece ial is non-hazardous and the Generator's certification of origin. No waste c proved.	essary chemical analyses to lassified as hazardous by l	o prove isting or testing
Il transporters mu	ust certify that the wastes delivered are only th	ose consigned fo	or transport.

RIEF DESCRIPTION OF THE MATERIAL:

ت	TANK Bottom	sediments	•
DECEIVED N JUN 2 4 1998	FRom Dorly		
OIL CON. DIV. DIST. 3			
stimated Volumeyd ³	Known Volume (to be entered by t	he operator at end of haul):	ya ³
NATURE	TITLE <u>GNV. SPE</u>	ALIST DATE	6-13-98
PE OR PRINT NAME SLATING WI		ELEPHONE NO (505) 3	34-8894
(This space for State Use)			
PROVED BY Deny B. Faut	TITLE Geolog is	DATE	25-198
PROVED BY		DATE	/

P.O. DRAWER 15250

FARMINGTON, NEW MEXICO 87401

TIERRA ENVIRONMENTAL COMPANY Inc.

420 COUNTY ROAD 3100 AZTEC, NEW MEXICO 87410



PHONE (505) 334-8894 FAX (505)334-9024

CERTIFICATE FROM OUT OF STATE AGENCY AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE JUN 2 4 1998 TO THE TIERRA CROUCH MESA LANDFARM LOCATED OL CON. DUV. DIST. 3 IN SAN JUAN COUNTY, NEW MEXICO

I have reviewed the enclosed information concerning RCRA exempt material generated at; Location: 17497 Huy 172, Ignacio CO (Sunco Ignacio Yard)

by; Generator._Sunco / Key Four Corners

As a representative of ;

Regulatory Colorado 011 & Gas Comm. Agency

I have no objection to the material being moved from our jurisdiction to the Tierra Crouch Mesa Landfarm located at 420 County Road 3100, San Juan County, New Merico.

Name:	oren Avis	Title: EPS	
Signature:	our ans	Date: 6-/0	-98
Phone: 303-894	-2100 ex 110 Fax: 303-	894-2109	

COGCC



1. Generator Name and Address:	2 Destination Norma
	2. Destination Name:
GUNCO TRUCKING	TIERRA LAND FARM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
IGNACIO YARD	17497 - Hwy_172 - IonAcio, Colo
Attach list of originating sites as appropriate	
4. Source and Description of Waste	······································
TOMPORARY STORAGE TAN	vk, TANK bottom geoiment
from Exempt well loca	40) (
	$\tau/\delta \sim 3$
11/ 0	
1. HAL STONE	representative for:
(Print Name)	- Big A Well & Sunce TRUCKING do hereby certify that,
according to the Resource Conservation and Re 1988, regulatory determination, the above desc	ecovery Act (RCRA) and Environmental Protection Agency's July
	-EXEMPT oilfield waste which is non-hazardous by characteristic sis 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 MSDS Information RCRA Hazardous Waste Analy Chain of Custody	documentation is attached (check appropriate items): Other (description): /sis
Name (Original Signature): <u>Hal Ston</u> Title: <u>General Manacer Truckwa</u>	<u>e</u>
Title: General Manager TRUCKING	Division
Date: 6-11-9.8	

V		
Box 1940 bs. NM 88241-1980 riet Π (505) 748-1283 S. First a. NM 88210 (505) 334-6178 ) Rio Brazos Road ε. NM 87410 τ IV (505) 827-7131	New Mexico Energy Minerals and Natural Resources Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	<b>Borm C-138</b> Department Submit Origi Plus 1 Copy to appropria: District Offic
	REQUEST FOR APPROVAL TO ACCEPT SO	DLID WASTE 98058
. RCRA Exempt:	Non-Exempt: DATE: 6-13-98	4. Generator
Verbal Approval Re	ceived: Yes No By: A. Foust	SUNCO TRUCKIN
Management Faci inFREA End Address of Facility	IRCOMMENTAL LAWSFARM	5. Originating Site Sm s `APA 6. Transporter
	3100 Aztec NM 87410	SUNCO Rile
	ai (Street Address or ULSTR)	8. State
HWY SCI	And Rosa Rd Intersection	NM
B. All requests	for approval to accept non-exempt wastes must be accomanied by nec is non-hazardous and the Generator's certification of origin. No waste c	essary chemical analyses to prove
Il transporters mus	t certify that the wastes delivered are only th	ose consigned for transport.
RIEF DESCRIPTION O		
RECE Jun 2 OIL COR DIST.	6 1998 PESulting From D	writer TANK Arly opterations

stimated Volumeyd ³	Known Volume (to be entered I	by the operator at end of	haui):yd ³
NATURE LUCE	TITLE ENV SPE	FCIAUIST	DATE 6-13-98
PE OR PRINT NAME 31 MANA	• , <u> </u>	TELEPHONE NO.	(505) 334-8894
(This space for State Use)			
PROVED BY Demy Grant	TITLE GEOlogis	1	DATE 6/25/98
PROVED BY And Augh		,	

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1 Consister Name and Addresses	Destination Manage
1. Generator Name and Address:	2. Destination Name:
Sinco TRuckins	TTERRA LAND FARM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Sims YARD	Firtcesection of Hury 527 and
	Rosa Rosal
Attach list of originating sites as appropriate	·
4. Source and Description of Waste	
TEMPERARY STORAGE TANK,	TANK bottom sepiment
From Exempt well locate	or 3
L	
1. HAL STONE	representative for:
(Print Name) <u>Key Four Convers</u> <u>Juc.</u> <u>DBA-Bic A</u> according to the Resource Conservation and Recove 1988, regulatory determination, the above described	Well & Sunce TRUCKING do hereby certify that, bry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
X EXEMPT oilfield waste NON-EXEI analysis o	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents of the following document	nentation is attached (check appropriate items): Other (description):
Name (Original Signature): <u>Hal Stone</u> Title: <u>Geweent Manager Trucking Divis</u>	
Title: General Manager TRUCKING DIVIS	SION
Date: 6-11-28	

וטוט-נדג ובטבו JTin (-138 New Mexico Box 1940 regination at the or Energy Minerals and Natural Resources Dép bs, NM 88241-1980 ·+ IT (505) 748-1283 **Oil Conservation Division** S. First a NM 88210 2040 South Pacheco Street Submit Origi Santa Fe, New Mexico 87505 (505) 334-6178 Plus 1 Copy ) Rio Brazos Road to appropria: (505) 827-7131 x, NM 87410 District Offic -+ IV (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE DATE: 6-10-98 X Non-Exempt: RCRA Exempt: 4. Generator BURLINGEN RESOURCES Verbal Approval Received: Yes 义 No Bv: . Fous-Management Facility Destination 5. Originating Site LIERCA Environmental LAMPFREM FACILI Mon -mee Address of Facility Operator 6. Transporter 420 CR 3100 87410 Location of Material (Street Address or ULSTR) 8. State NEW MEXICO S-17 T-30N UNIT A -11W Check One (A) All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator: one certificate per job. B. All requests for approval to accept non-exempt wastes must be accomanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved. Il transporters must certify that the wastes delivered are only those consigned for transport. RIEF DESCRIPTION OF THE MATERIAL: Oil CONTAMWATED SOILS FROM Blow Down pit And Drilling OFFRATIONS nated Volume <u>15-20</u> yd ³ Known Volume (to be entered by the operator at end of haul): _ TITLE Grupenmental Stecrates, DATE 6-10-98 NATURE BLAND Williams TELEPHONE NO. ____ (505) 334-8894 E OR PRINT NAME (This space for State Use)

ROVED BY Dent & Fant TITLE FEOLOGIST	DATE 6/25/98
PROVED BY Anie Breach TITLE	DATE

Tierra Location of the Waste (Street address /or JLSTR): Montgomery #2 Section: 17 Township: 030N Range: 011W representative for: do hereby certify tha
Location of the Waste (Street address /or JLSTR): Montgomery #2 Section: 17 Township: 030N Range: 011W
JLSTR): Montgomery #2 Section: 17 Township: 030N Range: 011W representative for:
JLSTR): Montgomery #2 Section: 17 Township: 030N Range: 011W representative for:
JLSTR): Montgomery #2 Section: 17 Township: 030N Range: 011W representative for:
Montgomery #2 Section: 17 Township: 030N Range: 011W representative for:
do hereby certify tha
do noroby certify the
nd Environmental Protection Agency's July,
the appropriate classification)
ste which is non-hazardous by characteristic ntification.
rdous waste defined above.
d (chech appropriate items):
description):
is D

ł.

Form C-138 New Mexico Box 1940 **Energy Minerals and Natural Resources Department** os. NM 88241-1980 rict IT (505) 748-1283 **Oil Conservation Division** S. First 2040 South Pacheco Street a, NM 88210 Submit Orig: Santa Fe, New Mexico 87505 Plus 1 Copy 4 (505) 334-6178 JUN 24 1999 to appropria: ) Rio Brazos Road (505) 827-7131 District Offic c. NM 87410 + IV (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE³ 4. Generator DATE: 6-2-98 RCRA Exempt: X Non-Exempt: Buplinter By: D. Foust Verbal Approval Received: Yes No 5. Originating Site Management Facility Destination MCGATH SWA #4 TIERRA Environmental LAMD FARM Address of Facility Operator 6. Transporter 420 CR. 3100 Artec NIM 87410 Location of Material (Street Address or ULSTR) 8. State 5-34 T-30N R-12W IInitsW NW Check One AV All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator: one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accomanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.

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

RIEF DESCRIPTION OF THE MATERIAL:

TANK Bottoms and skimmer pit sludges

stimated Volume <u>1000 BBLS</u> yd ³ Known Volume (to be entered by the operator at end of haui): yd ³
NATURE I Dai Will TITLE Environmental Stocialist DATE 62-98
E OR PRINT NAME BIATRO WILLIAMS TELEPHONE NO. (505) 334-8894
(This space for State Use)
PROVED BY Deny S. Pour TITLE Geologist DATE 6/25/98
DROVED BY AVA, BUILTIE DATE DATE

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ntative for:
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July,
July,
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<u>.</u>___

P.O. Box 1940 New Mexico	Form C-13
Hobbs, NM 88241-1980 Energy Minerals and Natural Resources 1	Department
811 S. First Oll Conservation Division	
<u>District III</u> (505) 334-6178 Santa Fe. New Mexico 87505	Submit Orig: Plus 1 Copy
1000 Rio Brazos Road Aztec, NM 87410 (505) 827-7131	to appropria: District Offic
<u>District IV</u> (505) 827-7131	and the second
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 98050
1. RCRA Exempt: X Non-Exempt: DATE: $5-26-98$	4. Generator
Verbal Approval Received: Yes No By: D. Foust	PNM Gas Services
2. Management Facility Destination	5. Originating Site
Tierra Environmental Landfarm	Wilmerding #1M
3. Address of Facility Operator	6. Transporter
420 C.R. 3100 Aztec, Son Juan County, NM 87410 7. Location of Material (Street Address or ULSTR)	Cruz Trucking
The result of matchair (Street Address Of OLSTR)	8. State
Wilmerding # 1M 5-10, T-31N, R-13W Son Juan County	New Mexico
9. <u>Check One</u>	
(A) All requests for approval to accept oilfield exempt wastes will be accompanied by a contract of the con	ertificate of waste from the Generator: one
B. All requests for approval to accept non-exempt wastes must be accomanied by neces the material is non-hazardous and the Generator's certification of origin. No waste cla will be approved.	ssary chemical analyses to prove assified as hazardous by listing or testing
All transporters must certify that the wastes delivered are only the	ose consigned for transport.
BRIEF DESCRIPTION OF THE MATERIAL:	a francúska na verzene a stranov na stranov na konstrukcije na stranovno stra
Soils From Dehy pit.	· ·
	DECEIVED MAY 2 7 1998
	OIL CON. DIW
	DIST. 3
Estimated Volume	or at end of haul):yd ³
SIGNATURE	Cial. 37 DATE 5-26-98
TYPE OR PRINT NAME Tin Nobis TELEPHO	ONE NO. (505) 334-8894
(This space for State Use)	
APPROVED BY 11 english Faul TITLE Geologist APPROVED BY English TITLE Geologist	DATE <u>5729/98</u>
APPROVED BY encir Busch TITLE Certogal	DATE98

	•
1. Generator Name and Address:	2. Destination Name:
PNM GAS SERVICES	TIERRA Environmental Castre
	CANAFARM Calle
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
WILMERDING #M	SID T-3/N RISW
Attach list of originating sites as appropriate	
4. Source and Description of Waste	From Dehu pit
1, <u>Gray Crok</u> (Print Name)	representative for:
Pn $rate a compared of the compared of the$	do hereby certify that
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	do hereby certify that, my 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
and that nothing has been added to the exempt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents of the following document	mentation is attached (check appropriate items): Other (description):
Name (Original Signature):	

5/22/98

Date:

Insuret ICost (305) 333-0101P.O. Box 1940New MexicoHobbs, NM 88241-1980Energy Minerals and Natural ResourcesDistrict Π(505) 748-1283	Conginated 4/18/05
Instruct II(505) /48-1283811 S. FirstOil Conservation DivisionArtesia, NM882102040 South Pacheco Street	
District III (505) 334-6178 Santa Fe, New Mexico 87505	Submit Origi: Plus 1 Copy
1000 Rio Brazos Road Aztec, NM 87410 (505) 827-7131	to appropriat District Office
<u>District IV (</u> 505) 827-7131	مېرىيىلىنى ئېرىمى بىرىمى بىرىمى بىرىمى ئېرىكى تىرى بىرى يىرى بىرى يېرى بىرى يېرى يېرى يېرى يېرى يېرى يېرى يېرى
REQUEST FOR APPROVAL TO ACCEPT SC	DLID WASTE 98051 96007
1. RCRA Exempt: X Non-Exempt: DATE: 5-26-98	4. Generator
Verbal Approval Received: Yes X No By D. Foust	RichARDSON OPER.
2. Management Facility Destination	5. Originating Site
TIFRAN ENVIRONMENTAL LANDFARM	SEE ATTACHED
3. Address of Facility Operator 420 CR 3100 Aztec Nm 87410	6. Transporter
7. Location of Material (Street Address or ULSTR)	8. State
SEE ATTACHED	NM
9. Check One	
All requests for approval to accept oilfield exempt wastes will be accompanied by a	certificate of waste from the Generator; one
certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste c will be approved.	essary chemical analyses to prove lassified as hazardous by listing or testing
All transporters must certify that the wastes delivered are only th	ose consigned for transport.
BRIEF DESCRIPTION OF THE MATERIAL:	en e
CONTAMINATED	soils From
CONTAMINATED : DETTY pits	
	DECEIVED
	$M_{MAY 2 7 1998} U$
	MAY 2 / 1998
Estimated Volume $50 - 75$ yd ³ Known Volume (to be entered by the operation	tor at end of haul):yd ³
$\sum (1) + 100$	an a sharan a she a she and sharan ada gamara a sa anan markan aran a
	DATE <u>S-26-98</u>
TYPE OR PRINT NAME BLAINE WILLIAMS TELEPH	IONE NO. <u>(505) 334-8894</u>
(This space for State Use)	
APPROVED BY Denne Rent TITLE GOOLOGIST	DATE <u>\$729/98</u>
APPROVED BY Sie Brach TITLE Geologat	DATE 6/1/98

#### 1. Generator Name and Address:

Richardson Operating Company 1700 Lincoln; Suite 1700 Denver, CO 80203

#### 2. Destination Name:

Tierra Environmental Corp. 420 Road 3100 Aztec, New Mexico 87410

#### 3. Originating Sita (name):

See attached list

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

Attach list of originating sites as appropriate

#### 4. Source and Description of Waste

Source: Separator production pit Description: Oil stained soil

I, <u>Cathleen Colby</u>

(Print Name)

Richardson Operating Company 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

Other (description):

representative for:

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

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

- MSDS Information
- ___ RCRA Hazardous Waste Analysis
- Chain of Custody

Name (	Original Signatu	res: <u>(athleon</u>	Collary	_
		-	0	
	Attorney in Th			· .

Title: Attorney-in-Fact

Date: May 21, 1998

Richardson Operating Company Certificate of Waste Status May 21, 1998

SW/4SW/4-Sec. 8-T28N-R8W Federal 41-8 #2 30-045-28059 Federal 23-17 #1 SW/4NE/4-Sec. 17-T28N-R8W 30-045-28471 SE/4SW/4-Sec. 16-T28N-R8W Federal 42-16 #2 30-045-28337 NW/4NE/4-Sec. 22-T28N-R8W Federal 13-22 #1 30-045-28342 Federal 13-13 #1 Federal 23-24 #1 NW/4NE/4-Sec. 13-T28N-R8W SW/4NE/4-Sec. 24-T28N-R8W 30-045-28053 30-045-28055 SE/4NE/4-Sec. 25-T28N-R8W Federal 24-25 #1 30-045-28056

	Roser Anderson
(ASUTE CONTRACTOR STORE) 2.0. Box (940) Hobbs, NM 88241-1980 I Down M.	Form C-1
District II (505) 748-1233 811 S. First Oil Conservation Division	
District III (505) 334-6178 1000 Rio Brazos Road	MAY 2:2 1998 Submit Orig MAY 2:2 1998 Copy to appropria
Aziec: NM 87410 (505) 827-7131 District IV (505) 827 7131	Environmentia caleau Distret on
REQUEST FOR APPROVAL TO ACCEPT SC	
1. RCRA Exempt Non-Exempt DATE:	4. Generator
Verbal Approval Received: Yes No By	Chenical Distributors Inc.
2. Management Facility Destination	5 Originating Site
3. Address of Facility Operator	<u>5 tores e Pard</u> 6. Transporter
420 C.R. 3100 Aztec, Saw Juan County NM 87410	
7. Location of Material (Street Address or ULSTR)	8 State
3911 Montoe Rd. Facmington Sw Juan County MM 8780	New Mexico
9 <u>Check One</u>	
<ul> <li>A. All requests for approval is accept oilfield exempt wastes will be accompanied by a c certificate per job</li> </ul>	
All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-nazardous and the Generator's certification of origin. No waste ci will be approved.	ssary chemical analyses to prove assified as hezardous by listing or testing
All transporters must certify that the wastes delivered are only the	
BRIEF DESCRIPTION OF THE MATERIAL. Solids from (K.C.L) Potassion Chloride TanKS	
Solids from Fertilizer Tank	DECENVED
	M MAY 2 0 1999
	GIIL CONL DIV
	DIST. 9
Estimated Volume/ Oyd ^a Known Volume (to be entered by the operat	or at end of haul):vd ¹
SIGNATURE TITLE <u>Invironmental Speci</u> TYPE OR PRINT NAME Nobis	<u>01-27-</u> × DATE <u>5-75-98</u> DNE NO: (505) 334-8894
(This space for State Use)	
APPROVED BY Demy & Tent TITLE Geologist	DATE 5120198
APPROVED BY Mutima Kils TITLE Environment	DATE 5/29/198-

P.O. Box 1940 Hobbs, NM 88241-1980 trief (505) 748-1283 811 S. First Artesia, NM 88210 (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410	Form C-1 Department Submit Ori: Plus 1 Copy to appropri: District Offi
<u>District IV</u> (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT SO	OLID WASTE 9804
1. RCRA Exempt: Non-Exempt: DATE: Verbal Approval Received: Yes No By	4. Generator
2. Management Facility Destination	5. Originating Site
Tierra Environmental Landfarm	Storage Yard
420 C. R. 3100 Azter San Turn Condu N.M. 9741	6. Transporter
7. Location of Material (Street Address or ULSTR)	8. State
3911 Monroe Rd. Farmington, Sw Juan County, NM 8740 9. Check One	New Mexico
Certificate per job. (B.) All requests for approval to accept non-exempt wastes must be accomanied by nec the material is non-hazardous and the Generator's certification of origin. No waste of will be approved. All transporters must certify that the wastes delivered are only the	assified as hazardous by listing or lesting
BRIEF DESCRIPTION OF THE MATERIAL: Solids from (K.C.L) Potassion Chloride Tanks Solids from Fertilizer Tank	RECEIVED MAY 2 0 1998 OIL CON: DIV
	DIST. 3
Estimated Volumeyd ³ Known Volume (to be entered by the opera	tor at end of haul):yd ³
SIGNATURE	iglist DATE 5-15-98
	IONE NO(505) 334-8894
(This space for State Use)	
PPROVED BY Demy B. Jan TITLE Geolog 15T	DATE 5720/98
APPROVED BY TITLE	DATE

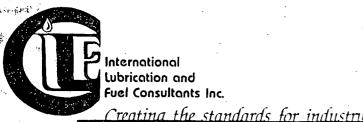
MAV-14-00	07.MC	EDOM EDOMINOTON	CUEWICAI	D I C T	10.5057077406
INW 1 - 14 - 30	23:00	FROM FARMINGTON	UHEMILAL	DIBI	10:3033/ 400

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1. Generator Name and Address:	2. Destination Name:
Chemical Distributors The	Z. Destination Name: TierRA Environmental Co Inc
3011 Moarde Rd.	420 - County Rel 3100
Francington New 87401	Aztec num. 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Clemical Dist Inc.	3911 Monroe Rd.
Francington n.m.	forencington Nim 87401
Attach Bet of originating sites as appropriate 4. Source and Description of Waste	
4. Source and Description of Waste Solids from (K. C.L.) Pota Solids from fertilesce stor	servin Chloride TAuks
Selices prove (n. C.h.) 1014	
Solids from fertilesce stor	Age Ant
	<b>й</b> ,
, Jerey Hughos	representative for:
Chemical District Name) The	
	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	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 weste only the following docum	nentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
$\bigcirc$ 1/1	
Name (Original Signature): Jerry Alugha	e l
Title: Operation?	
Dato: 5-13-28.	



aboratory Manager_

International Lubrication and Fuel Consultants Inc.

P.O. Box 15212 Rio Rancho, Nivi 37174 (505) 892-1666 (800) 237-4532 Fax (505) 892-9601

- 37

**ILFC Laboratory Report** 

### Tierra Environmental Co., Inc.

for

P.O. Drawer 15250 Farmington NM

### Project No:

### Not Given

Project Location:

Not Given

Sampler: Date Sampled: Date Received: Date Reported: Report #:

10/8/97 10/10/97 10/31/1997 97152

and a second s						
ų factorijas ir s		LFC Labor،	atory Repo	ľi st		
Sample Date:	1010131	Tierra Enviror	nmental Co., Inc.		· · · · ·	CAL 1
Registered Date/Time:	10/16/1997 02:25:44		Given	·		CAI-1
	· · · ·					
Batch #	97152	. 9	Soil			ILFC # 10704
				0	:	in prices in the mark
	Analyte	MDL	sis by ICP: EPA 601 Concentration	IU	Limit	
	Arsenic	0.5 mg/l	<0.5	5.0	<u>`</u>	Country of the
	Barium	0.2 mg/l	<0.2	100	· · · · · · · · · · · · · · · · · · ·	
	Cadmium	0.1 mg/l	<0.1	1.0 ·		
	Chromium	0.2 mg/l	<0.2	5.0	······································	
	Lead	0.2 mg/l	<0.2	5.0		
	Selenium	0.0 mg/l	-0.5	1.0		<b>,</b>
	Silver	0.2 mg/l	< < 0.2	5.0		
	Mercury	0.001 mg/L	<0.001	0.2		·····································
				ļ		· · · · · · · · · · · · · · · · · · ·
	Analyst	Robert Furlong				here is a second se
	Date Analyzed	10/17/97				
		TCLP Volatile Organ	nics: EPA Method 8	260		¥1.
	Analyte	MDL (mg/			Limit (mg/L)	···· ·
Be	enzene	0.005	<0.005		0.5	ار و موهمینه به ما به چکمهراندید وطار د
Ca	arbon Tetrachloride	0.005	<0.005		0.5	
Ch	nlorobenzene	0.005	<0.005	•	100.0	
Ch	nloroform	0.005	<0.005		6.0	· · · ·
1,4	4-Dichlorobenzene	0.005	<0.005		7.5	-
1,2	2-Dichloroethane	0.005	<0.005		0.5	· ·.
1,	1-Dichloroethylene	0.005	<0.005		0.7	
Me	ethyl Ethyl Ketone	0.005	<0.005		200.0	· · ·
Te	etrachloroethylene	0.005	<0.005		0.7	•
	ichloroethylene	0.005	<0.005		0.5	
·	nyl Chloride	0.005	<0.005		0.2	• 
	ethylene Chloride	0.005	<0.005		n/a	· ·
Ac	cetone	ຸບໍ.ບັ05	<0.005		n/a	

### TCLP Base Nuetrals: EPA Method 8270

Analyte	MDL (mg/L)	Concentration	Limit (mg/L)
1,4-Dichlorobenzene	0.005	0.041	7.5
2,4-Dinitrotoluene	0.005	<0.005	0.13
Hexachlorobenzene	0.005	<0.005	0.13
Hexachlorobutadiene	0.005	<0.005	0.5
Hexachioroethane	0.005	< 0.005	3.0
Nitrobenzene	0.005	<0.005	2.0
Pyridine	0.005	<0.005	5.0

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#### TCLP Acids: EPA Method 8270

TCEF ACIds. EFA Metilod 0270					
Analyte	MDL (mg/L)	Concentration	Limit (mg/L)		
o-Cresol	0.005	<0.005	200		
m,p-Cresol	0.005	<0.005	200		
Pentachlorophenol	0.005	<0.005	200		
2,4.5Trichlorophenol	0.005	<0.005	400		
2.4.6Trichlorophenol	0.005	<0.005	2.0		

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MAY-14-98	23:07	FROM FARMINGTON	CHEMICAL	. DIST	ID:505327640
		METER	IAL SA	FETY	DATACHE

POTASH

CAUTION - MAY CAUSE SKIN AND EYE IRRITATION

MOAB SALT, Inc.

P.O. Box 1208 Moab, Ulah (801) 259-771

#### **TEXASGULF** Inc.

3101 Glenwood Avenue P.O. Box 30321 Raleigh, N.C. 27622-0321 (919) 881-2700

3/4

PAGÈ

TRANSPORTATION EMERGENCIES: CALL (800) 424-9309 (CHEMTREC) HEALTH EMERGENICES: CONTACT YOUR LOCAL POISON CENTER

### **PRODUCT INFORMATION**

CHEMICAL NAME AND SYNONYMS POTASSIUM CHLORIDE TRADE NAME AND SYNONYMS POTASH. POTASSIUM MURIATE, MURIATE OF POTASH

CHEMICAL FAMILY INORGANIC SALT

FORMULA KC1

CAS NUMBER 7447-40-7

Listed in: OSHA SUBPART Z

LARC MONOGRAPH;

TYPICAL COMPOSITION POTASSIUM CHLORIDE SODIUM CHLORIDE ACGIH TLV LISTS: NTP LIST:

X NONE OF THE ABOVE

% 96.8

28 (CAS #7847-14-5)

### PHYSICAL DATA

BOILING POINT (°F) VAPOR PRESSURE (mm Hg.) VAPOR DENSITY (AIR-1) SOLUBILITY IN WATER APPEARANCE AND ODOR pH Sublines @ 2732 N/A N/A 25% @ 68°F White crystals or granules, odorless 7 at 1% MELTING POINT (³F) 1423 SPECIFIC GRAVITY (H20-1) 1.98 PERCENT VOLATILE №A EVAPORATION RATE N/A OTHER

### FIRE AND EXPLOSION HAZARD INFORMATION

 FLASH POINT (METHOD USED)
 NOT COMBUSTIBLE
 FLAMMABLE LIMITS
 LEL N/A

 EXTINGUISHING MEDIA
 N/A
 UEL N/A

 SPECIAL FIRE HIGHTING PROCEDURES
 NONE
 UEL N/A

 UNUSUAL FIRE AND EXPLOSION HAZARDS
 NONE

### HEATLH INFORMATION

THRESHOLD LIMIT VALUE:

NONE ESTABLISHED. OHSA total nuisance dust limit of 15 mg/m² and a respirable faction of 5 mg/m³. The ACGIH nuisance dust TLV of 10 mg/m² for the 8 hour time weighted average applies.

(N/A - Not Applicable)

March 6, 1950

MAY-14-98 23 EFFECIS OF OVER		Dass Ps. IN	N CHEMICAL DIST ID 5053276406 SKIN-Slightly initiating. INHALA I UN Privates trache GESTION-Large doses and cause Contraction, purg nees. Low toxicity. (Toxicity LDSO Rat=3020 mg/kg)	a anu uppe jing, weakn	PAGE 4/4 UCCANNING ess and circula-
SKIN-Wash ti	oroughly horoughl I-Removi	with water. Seek is y with soap and water to fresh air, If dise	medical attention if imitation persists.	3. Seek me	dical attention.
		•	REACTIVITY DATA		· · · · · · · ·
STABILITY	X	UNSTABLE STABLE	CONDITIONS TO AVOID	NONE	
INCOMPATABILITY HAZARDOUS DECO	(Materia MPOSIT	ls to Avoid) Stron ION PRODUCTS	ng acids-can cause release of toxic chloride gasses. None		•
HAZARDOUS POLYMERIZATION	X	May Occur Will Not Occur	CONDITIONS TO AVOID	NONE	
	<i>.</i>	SPILL	OR LEAK PROCEDURES		
STEPS TO BE TAKE ways or vegetation.	in in ca	SE MATERIAL IS	RELEASED OR SPILLED Prevent large quantities	from conta	ct with water

WASTE DISPOSAL METHOD If uncontaminated, recover and reuse product. Consult State or Federal environmental regulatory agencies for acceptable disposal procedures and location.

# PERSONAL PROTECTION INFORMATION

EYE-Tight fitting goggles should be worn in dusty areas. SKIN-if irritation occurs, long sleeves and impervious gloves should be worn. RESPIRATORY-A NIOSH-approved dust respirator should be used when exposure exceeds the OSHA standard of  $15 \, mo/m^3$ .

# SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING NONE

OTHER PRECAUTIONS Potash is mildly corrosive to steel when wet.

Although the information contained herein is offered in good (aim, SUCH INFORMATION IS EXPRESSLY GIVEN WITHOUT ANY WARRANTY (EXPRESS OR IMPLIED) OR ANY GUARANTEE OF ITS ACURACY OR SUFFICIENCY and is taken at the user's sole risk. User is solely responsible for determining the suitability of use in each particular situation. Most Salt specifically DISCUAIMS ANY LIABILITY WHATSOEVER FOR THE USE OF SUCH INFORMATION, including without limitation any recommendations which user may construe and attempt to apply which may intringe of violate valid patents, licenses and/or copyright.

District II (505) 333-6101P.O. Box 1940New MexicoDistrict II (505) 748-1283Chich gy Princer and Prattural Resources IOil Conservation DivisionOil Conservation DivisionArtesia, NM 882102040 South Pacheco StreetDistrict III (505) 334-6178Santa Fe, New Mexico 875051000 Rio Brazos Road(505) 827-7131Aztec, NM 87410(505) 827-7131	<b>Form C-R</b> Department Submit Ori Plus 1 Copy to appropri District Off
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE
1. RCRA Exempt: X Non-Exempt: X DATE: 5-13-98	4. Generator
<ul> <li>Verbal Approval Received: Yes No By: D. Foust</li> <li>2. Management Facility Destination <ul> <li>Tierra Environmental Lond Farm</li> </ul> </li> <li>3. Address of Facility Operator <ul> <li>420 County Road 3im Aztec SawJuan County N.M. B.7410</li> </ul> </li> <li>7. Location of Material (Street Address or ULSTR) <ul> <li>Unit - P Sec - 9, T= 3/N, R-10W Sux Sux County</li> <li>9. Check One</li> <li>All requests for approval to accept oilfield exempt wastes will be accompanied by a coefficient per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necest the material is non-hazardous and the Generator's certification of origin. No waste carvillo approved.</li> </ul> </li> <li>All transporters must certify that the wastes delivered are only the approved.</li> </ul>	ssary chemical analyses to prove assified as hazardous by listing or testing
BRIEF DESCRIPTION OF THE MATERIAL: fit Closure Work - Contaminated Material from f Estimated Volumeyd ³ Known Volume (to be entered by the operated	DECEIVED MAY 2 0 1998 DIL CON. DIV. DIST. 3
SIGNATURE TITLE <u>EN Visconmental</u> Spec TYPE OR PRINT NAME <u>Tim Nobis</u> TELEPHO	<u>ia /: 5 7</u> DATE <u>5-/3-98</u> ONE NO. <u>(505) 334-8894</u>
(This space for State Use) APPROVED BY Dem TITLE GeologisT APPROVED BY Chee DuscHITLE Geologist	DATE <u>5/20/98</u> DATE <u>5/20/98</u>

# **CERTIFICATE OF WASTE STATUS**

. Generator Name and Address:	2. Destination Name:
Burlington Resources	Тістта
3535 East 30 th Street	Ticria
Farmington NM 87401	
. Originating Site (name):	Location of the Waste (Street address /or
Luceme A 2A	ULSTR): Lucerne A 2A
Unit: ^p	Section: ⁹ Township: ^{31N} Range: ^{10W}
. Source and Description of Waste:	
Pit Closure Work	
· · · ·	
, Jeff Schoenbacher	representative for:
Jeff Schoenbacher Burlington Resources	do hereby certify that,
	do hereby certify that, CRA) and Environmental Protection Agency's July,
Burlington Resources according to the Resource Conservation and Recovery Act (RC 1988, regulatory determination, the above described waste is:	do hereby certify that, CRA) and Environmental Protection Agency's July, (Check the appropriate classification) Tield waste which is non-hazardous by characteristic
Burlington Resources according to the Resource Conservation and Recovery Act (RC 1988, regulatory determination, the above described waste is: ✓ EXEMPT oilfield waste	do hereby certify that, CRA) and Environmental Protection Agency's July, (Check the appropriate classification) Tield waste which is non-hazardous by characteristic uct identification.
Burlington Resources according to the Resource Conservation and Recovery Act (RC 1988, regulatory determination, the above described waste is: EXEMPT oilfield waste NON-EXEMPT oilf	do hereby certify that, CRA) and Environmental Protection Agency's July, (Check the appropriate classification) Field waste which is non-hazardous by characteristic uct identification.
Burlington Resources according to the Resource Conservation and Recovery Act (RC 1988, regulatory determination, the above described waste is: EXEMPT oilfield waste INON-EXEMPT oilf analysis or by produce and that nothing has been added to the exempt or non-exempt non- For NON-EXEMPT waste only the following documentation is a	do hereby certify that, CRA) and Environmental Protection Agency's July, (Check the appropriate classification) Field waste which is non-hazardous by characteristic uct identification.
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District 1         (505) 373-0101           P.O. Box 1940         Hobbs. NM 88241-1980         Ener           District II         (505) 748-1233         811 S. First           Artesia. NM 88210         District III (505) 334-6178         1000 Rio Brazos Road           Aztec. NM 87410         District IV (505) 827-7131         600 Rio Brazos Road	New Mexico gy Minerals and Natural Resources Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Department Submit O Plus 1 Co to approp District O
REQ	JEST FOR APPROVAL TO ACCEPT SC	OLID WASTE 960(
Verbal Approval Received: 2. Management Facility Des <u>Tierra</u> <u>Environmen</u> 3. Address of Facility Opera <u>420 County Read 3100 M</u> 7. Location of Material (Stre <u>3101 East Allow Cield Hug</u> 9. <u>Check One</u> A. All requests for approve certificate per job. B. All requests for approve will be approved.	tal Landfarm tor	8. State New Mexico certificate of waste from the Generator: one essary chemical analyses to prove tassified as hazardous by listing or testing
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Modern Iron			Tierra E	vironmenta	1 Company,	Inc.
3101 E. Br			420 County	Road 3100		
FARMINGTON	, N. MEX.	87401		ion County, N	A ATUA	
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MODER: "N FAX 505-3277357

PAGE 02

Date issued: GE-02-08 Supercods: 12-08-05 TEXACO INTERIAL SAFETY DATA SHEET NOTE: Read and understand Material Safety Data Sheet Dafore handling or disposing of product. 1. CHEMICAL PRODUCT AND COMPANY IOENTIFICATION MATERIAL IDENTITY Product Code and Name: 01887 RANOO HD 32 Chemical Name: 10887 RANOO HD 32 Chemical Name: 10884 Ranoo Ranoo Hambors: 10884 Ranoo 10884 Ranoo 10885	03	PAGE Ø3
TEXACO MATERIAL SAFETY DATA SHEET NOTE: Read and understand Material Safety Data Sheet Defore handling or disposing of product. I. CHEMICAL PRODUCT AND COMPANY IOENTIFICATION MATERIAL IDENTIFY product Code and Name: offices and Name: product Code and Name: Traisphone Nambers: Traisphone Nambers: Comparity (\$14) 831-7300 General MSD Xesistance (\$12) 259-6543 -Lubricent/; (\$20) \$76-3738 2. COMPOSITION/INFORMATION ON INZEDIENTS The CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCIMODENS ARE LISTED GENERALISTED WEEN RESENT AT 0.1 X OR GREATER; COMPONENTS WHICH ARE DIFIERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCIMODENS ARE DISTED COMPOSARE, LISTED WEEN RESENT AT 1.0 X OR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REQULATORY INFORMATION. Product and/or COMPONENTS and Chemical Name) Seq. Chemical Namber and Chemical Name) Seq. Sciencial Namber and Sciencial Namber According to Sciencial Scienci Scien		
MATERIAL SAFETY DATA SHEET NOTE: Read and understand Material Safety Data Sheet Defore handling or disposing of product. CHERICAL PRODUCT AND COMPANY IDENTIFICATION ATERIAL IDENTITY Product Code and Name: 01857 RANDO HD 32 Cherical Name and Address: Tetrado LUBRICATS COMPANY A DIVISION OF TEXACO REFINING AND MARKETING INC. P.G. Box 4427 Heitren. TX 70200-4407 Talsphone Numbers: Transportation Emergency-Company : (914) 831-3400 Cheriter Interference (1914) 831-3400 General MSDS Assistance Cheriter (1914) 831-7340 Talsphone Numbers: Transportation Emergency-Company : (914) 831-7340 General MSDS Assistance Cheriter (1914) 831-7340 Cheriter (1914) 831-7340 General MSDS Assistance Cheriter (1914) 831-7340 Cheriter (19	• . · · ·	VI
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ATERIAL IDENTITY Product Codes and Name: (1987 MANDO HD 32 Chemical Name and/or Family or Description: Hydraulic Oils Henufecturer's Name and Address: ITEXACG LUBRICANYS COMPANY A DIVISION OF TEXACO REFINING AND MARKETING INC. F.O. BOX 4427 Houston, TX TTOIN-4437 Talephone Numbors: Transportation Emergency-Company : (914) 831-3400 General MSD Assistance Cempany : (914) 831-3400 General MSD Assistance Tecnnical Information -Fuels : (914) 830-7336 -Company : (914) 830-7336 -Company : (914) 830-7336 -Composition : (713) 236-6278 -Solvents : (800) 782-7852 Antifregates -Additives : (703) 236-6278 -Solvents : (800) 782-7852 Antifregates -Additives : (800) 876-3738 -Composition Sat Listen UMEN PRESENT AT 0.1 % or GREATER: NOT InterAddous Components IN THE COMPOSITION IS AS FOLLOWS: Cale Modes and Listen UMEN PRESENT AT 0.1 % or GREATER: THIS IS NOT InterAddous Components and Listen Affect of Solvents which are OTHERWISE MARANOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER: NON-HAZARDOUS COMPONENTS ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER: NON-HAZARDOUS COMPONENT AND CHER REGULATORY INFORMATION. Product and/or Component(s) Carcinoganic According to: GHA LARC MTP OTHER NONE -		
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Hydraulic Oile Henufecturer's Name and Address: ITRACO LUBRICANTS COMPANY A DIVISION OF TEXACO REFINING AND MARKETING INC. P.O. Box 4427 Howmann. TX TTPIG-A427 Telephone Numbers: Transportation Emergency-Company: (914) 831-3400 CHEWTREC (800) 424-9300 Health Emergency -Company: (914) 831-3400 General MSDS Assistance (914) 838-7306 -Chemical : (912) 235-6278 -Solvents : (800) 876-3738 COMPOSITION/INPOGNATION ON INGREDIENTS THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINGENS ARE LISTED WHEN PRESENT AT 0.0 % OR GREATER: COMPONENTS WHICH ARE OTHERWISE HA2AROOUS ACCORDING TO OSHA ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND CHER REGULATORY INFORMATION. Product ama/or Component(s) Carcinoganic According to: OSHA IARC NTP OTHER NONE 	· .	
TEXACQ LUBRICANTS COMPANY A DIVISION OF TEXACO REFINING AND MARKETING INC. P.O. BOX 4427 Houston. TX TT3:0-1427         Taisphone Numbers: Transportation Emergency-Company : (914) 831-3400 General MSDS Assistance CHEMTREC : (800) 424-9300 General MSDS Assistance CHEMTREC : (800) 424-9300 General MSDS Assistance CHEMTREC : (800) 424-9300 General MSDS Assistance Chemtcal : (914) 838-7336 -Chemtcal : (912) 459-6543 -Chemtcal : (912) 459-6543 -Chemtcal : (912) 459-6543 -Chemtcal : (912) 459-6543 -Chemtcal : (900) 782-7852 -Additives : (713) 235-6278 -Solventz : (800) 876-1738         COMPOSITION/INPGRMAYION ON INCREDIENTS THÉ CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION IS AS FOLLOWS: CARCINGGENS ARE LISTED WHEN PRESENT AT 0.1 0 X OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES 'RIGHT 10 KNOW AND GTHER REGULARY INFORMATION.         Product and/or Component(s) Carcinogenic According to: 03HA IARC MTP OTHER NOME X Composition: (3equence Number and Chemical Name) Seq. Chemical Name X Composition: SNON-HAZARDOUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSUS ACCORDING TO SHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSUME INT (PEL) FOR MINERAL OIL MIST.         Chemical Name X Composition Section X Composition Section X Composition ST	•	
Transportation Emergency-Company : (914) 831-3400 CHEMTREC : (800) 424-9300 General MSDS Assistance General MSDS Assistance Technical Information -Fuels : (914) 838-7336 -Chemical : (512) 438-6543 -Chemical : (512) 438-6543 -Lubricent/: (800) 782-7522 Antifreezee -Additives : (713) 236-6278 -Solvents : (800) 876-3738 COMPOSITION/INPORMATION ON INGREDIENTS THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER: COMPONENTS WHICH ARE DTHERWISE MAZAROOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR REATER: NON-HAZAROOUS COMPONENTS AN LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND CHER REGULATORY INFORMATION. Product and/or Component(s) Carcinogenic According to: OSHA IARC NTP OTHER NONE CAS NUMBER SOLVENT-devexed heavy paraffinic petroleum distillates PRODUCT IS NON-HAZAROOUS ACCORDING TO OSHA (1910.1200). J CLEDNENT, BY DEFINITION, IS CONSIDERED HAZAROUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. PRODUCT IS NON-HAZAROOUS ACCORDING TO DSHA (1910.1200). J CLEDNENT, BY DEFINITION, IS CONSIDERED HAZAROUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. PRODUCT IS NON-HAZAROOUS ACCORDING TO DSHA (1910.1200). J CLEDNENT, BY DEFINITION, INCOMENTA ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. PRODUCT IS NON-HAZAROUS ACCORDING TO DSHA (1910.1200). J CLEDNENT, BY DEFINITION, IS CONSIDERED HAZAROUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. HAZARD IDENTIFICATION HERMERENCY OVERVIEW APPENDENCE:		· .
General MSDS Assistance : (914) 838-7304 Technical Information -Fuels : (914) 838-7306 -Chemical : (512) 459-6543 -Lubricant/: (800) 782-7552 Antifreezes -Additives : (713) 235-6278 -Solvents : (800) 876-3738 -COMPOSITION/INFORMATION ON INGREDIENTS THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINGGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER: COMPONENTS WHICH ARE DIMERVISE MAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR REALTER: NON-HAZARDOUS COMPONENTS ARE LISTED WHEN PRESENT AT 1.0 % OR REALTER: NON-HAZARDOUS COMPONENTS ARE LISTED WHEN PRESENT AT 1.0 % OR REALTER: NON-HAZARDOUS COMPONENTS ARE LISTED WHEN PRESENT AT 1.0 % OR REALTER: NON-HAZARDOUS COMPONENTS ARE LISTED AND THE REGULATORY INFORMATION. Product and/or Component(s) Carcinogenic According to: OSHA IARC MTP OTHER NONE -		
-Additives (713) 235-6278 -Solvents : (800) 876-3738 COMPOSITION/INPORMATION ON INGREDIENTS THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: DARCINGARS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER: COMPONENTS WHICH ARE DTHERWISE MAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR BREATER: NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND CTHER REGULATORY INFORMATION. Product and/or COMPONENT(s) Carcinoganic According to: OSHA IARC NTP OTHER NONE CAS NUMDER Range In % Of # Solvent-dowsmod humber and Chemical Name) Led, Chemical Name CAS Number Range In % Of # Solvent-dowsmod humber and Chemical Name) Led, Chemical Name CAS Number Range In % Of # Solvent-dowsmod humber and Chemical Name) Led, Chemical Name CAS Number Range In % Of # Solvent-dowsmod humber and Chemical Name) Led, Chemical Name CAS Number (1910.1200). * COMPONENT, BY DEFINITION. IS CONSIDERED HAZARDOUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
COMPOSITION/INPOSMATION ON INGREDIENTS THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE MAZAROOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZAROOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE, REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND CTHER REGULATORY INFORMATION. Product and/or Component(s) Carcinogenic According to: OSHA IARC NTP OTHER NONE CAS NUMBER AND CHEM NONE GREATER: NON-HAZAROOUS ALMONG NUMBER and Chemical Name) Seq. Chemical Name CAS Number Range in % OI # Solvent-dewaxed heavy paraffinic petroleum G44742-65-0 95.00-89.99 G1#STITION, IS CONSIDERED HAZAROOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL DIL MIST. EXPOSURE LIMITS TEFERENCE by Sequence Number in the COMPOSITION Section Seq. Limits referenced by Sequence Number in the Composition Section MIST. EXPOSURE LIMITS TELACGIH (MINERAL OIL MIST) I MAZARD IDENTYPICATION EMERGENCY OVERVIEW APPENDENCE:		
CARCINGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER: COMPONENTS WHICH ARE DIHERWISE MAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR BREATER: NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION. Product and/or Component(s) Carcinogenic According to: OSHA IARC NTP OTHER NONE X Composition: (Sequence Number and Chemical Name) Seq. Chemical Name X Composition: (Sequence Number and Chemical Name) Seq. Chemical Name X Composition: Sequence Number to OSHA (1910.1200). % COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. Exposure Limits referenced by Sequence Number in the Composition Section Seq. Limit I B mg/m3 TWA-OSHA (MINERAL OIL MIST) D1 5 mg/m3 STEL ACGIH (MINERAL OIL MIST) D1 10 mg/m3 STEL ACGIH (MINERAL OIL MIST) HAZARD IDENTIFICATION EMERGENCY OVERVIEW Appearence:		
Seq. Chemical Name       CAS Number       Range in ½         O1 # Solvent-dewaxed heavy paraffinic petroleum       64742-65-0 95.00-99.99         dietillates       64742-65-0 95.00-99.99         PRODUCT IS NON-HAZARDOUS ACCORDING TO DSHA (1910.1200).       #         # COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL DIL MIST.         Exposure Limits referenced by Sequence Number in the Composition Section         Seq. Limit         01 S mg/m3 TWA-DSHA (MINERAL OIL MIST)         01 10 mg/m3 STEL ACGIH (MINERAL OIL MIST)         .         HAZARD IDENTIFICATION         EMERGEMCY OVERVIEW         Appearance:		
distillates PRODUCT IS NON-HAZAROOUS ACCORDING TO OSHA (1910.1200). # COMPONENT, BY DEFINITION. IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL DIL MIST. Exposure Limits referenced by Sequence Number in the Composition Section Seq. Limit 01 5 mg/m3 TWA-OSHA (MINERAL OIL MIST) 01 5 mg/m3 TWA-ACGIH (MINERAL OIL MIST) 01 10 mg/m3 STEL ACGIH (MINERAL OIL MIST) 10 mg/m3 STEL ACGIH (MINERAL OIL MIST) EMERGENCY OVERVIEW Appearence:		
<pre># COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL DIL MIST. Exposure Limits referenced by Sequence Number in the Composition Section Seq. Limit 01 5 mg/m3 TWA-OSHA (MINERAL OIL MIST) 01 5 mg/m3 TWA-ACGIH (MINERAL OIL MIST) 01 10 mg/m3 STEL ACGIH (MINERAL OIL MIST) 01 10 mg/m3 STEL ACGIH (MINERAL OIL MIST) 01 AD mg/m3 STEL ACGIH (MINERAL OIL MIST) 01 AD mg/m3 STEL ACGIH (MINERAL OIL MIST)</pre>		
Seq. Limit 01 5 mg/m3 TWA-D5HA (MINERAL OIL MIST) 01 5 mg/m3 TWA-ACGIH (MINERAL OIL MIST) 01 10 mg/m3 STEL ACGIH (MINERAL OIL MIST) . HAZARD IDENTIFICATION EMERGENCY OVERVIEW Appearance:		
01 5 mg/m3 TWA-05HA (MINERAL OIL MIST) 01 5 mg/m3 TWA-ACGIH (MINERAL OIL MIST) 01 10 mg/m3 STEL ACGIH (MINERAL OIL MIST) . HAZARD IDENVIPICATION EMERGENCY OVERVIEW Appearance:		
EMERGENCY OVERVIEW		
Appearance:		
Odor: Petroleum oll odor		
WARNING STATEMENT NONE CONSIDERED NECESSARY		
PAGE: 1		

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PRODUCT CODE: 01087 NAME: RANDO HD 32

3. HAZARD IDENTIFICATION (CONT)

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Hadi S	NFPA
Health: 1 Reactivity: 0	Health: i Reactivity: O
Flammability: 1 Special : -	Flammability: 1 Special : -
POTENTIAL HEALTH EFFECTS	
Primary Route of Exposure: X X	I INHALATION INGESTION
EFFECTS OF OVEREXPOSURE Acuto: Eyos: May cause minimal irritation, expanse	inced as temporary discomfort.
Skin:	
Brief contact may cause slight irrits clothing wettod with material, may ca comfort, seen as local redness and sw	use more severa irritation and dis-
Cther than the potential skin irritat torm) advarse offects are not expecte effects, below, and Section 11 for ir term offects.	ion effects noted above, acute (short d from brief skin contact; see other formation regarding potential long
Inhalation: Vapors or mist, in excess of permissi high concentrations generated from sp from exposure in poorly ventilated an irritation of the nose and throat be	raying, heating the material or as eas or confined spaces, may cause
Ingestion: If more than several mouthfuls are sw and diarrhes may occur.	allowed, abdominal discomfort, nauses
Unknown.	
Chronic: No adverse offects have been document exposure. Section 11 may contain app	
Medical Conditions Aggravated by Expos Because of its irritating properties, an existing dermatitie (skin conditio	repeated skin contact may aggrevate
Other Remarks: Material from high pressure equipment failure can penetrate the skin and, i severe injury, including disfiguremen Amputation of the affected area. To immediate medical attention should be appears to be minor.	t, loss of function, or even require or event such serious injury.
1. Pirey and measures	
Syes: Flush ayes with plenty of vater for sav attention if aye irritation persists.	eral minutes, Get medical
Skin: Mash skin with plenty of soap and water attention if skin irritation develops o	for several minutes. Get medical r persists.
Ingestion: If more than several mouthfuls of this glasses of water (15 oz.). Get medical	material are swallowed, give two attention.
Inhalation: If irritation, headache, nausea, or dro Get medical attention if breathing beco irritation persists.	wsiness occurs, remove to <b>fresh air</b> . mes difficult or respiratory
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Data Issued: 08-02-98

Supersedes: 12-08-88



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4. FIRST AID MEASURES (CONT)

Other Instructions:

PRODUCT CODE: 01687

NAME: RANGO HD 32

High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require anoutation of the affected area.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential nazards associated with handling contaminated clothing.

U. FIRE-FIGHTING MEASURES

Ignition Texperature - AIT (degrees F): Not determined. Flash Peint (degrees F): 338 (COC) Flasmachle Limits (%): Lower: Not determined. Upper: Not determined. . Recommended Fire Extinguishing Agents And Special Procedures; Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water epray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards: None

Extinguishing Media Which Must Not Be Used: Not determined.

Special Protective Equipment for Firefighters: Wear full protective clothing and positive pressure breathing apparatus.

8. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-8300)

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

7. MANDLING AND STORAGE

Pressutions to be Taken in Handling:

Minimum feasible handling temperatures should be maintained.

Storage:

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

5. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type) Eye/Face Protection: Safety glasses, chemical type goggles, or face shield recommended to prevent aye contact.

Skin Protoction:

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

	PAGE : 3	
N.D NOT DETERMINED	N.A NOT APPLICABLE	N.T NOT TESTED
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# Date Tssuad: 08-02-86 Supersedes: 12-08-95 Product Code: 01067 Wale: Rando HD 33

B. EXEMUSIONE CONTROLS/PERSONAL PROTECTION (CONT)

the Respiratery Presention: Afthorne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of vapor, mist or any component of the product, is exceeded, use appropriate product, or any component of the product, is exceeded, use appropriate product, or any component of the product is exceeded, use appropriate product, or any component of the product is exceeded, use appropriate products, or any component of the product is exceeded use after deformanting a supplyed of the contaminant. Air supplied respirators should sivays be worn when airborne concentration of the contaminant or oxygen content is unknown. Wantilation: Acaquate to meet component occupational exposure limits (see Section 2) Exposure Limit for Total Product: Nons established for product; refer to Section 2 for component exposure limits. PHYSICAL AND CHEMICAL PROPERTIES

# .

Products Evolved Man Subjected to Meat or Combustion: Toxic levels of carbon monoxide, carbon dioxics, irritating sloshydes and details) None of These This katerial keets Vielently Hith: (If Others is checked below, see comments for Air Water Heat Strong Oxidizers Others Air Water Heat Strong Oxidizers Others Weiting/Freezing point (dogrees F): Not applicable. Spealfic Gravity (water 1); .6681 10. STABILITY AND REACTIVITY Boiling Point (degrees F): Not determined. # ef unsillutes product: Not dotermined. Solubility in Mater (%): Not determined. Vaser Bansity (air-1); Not catarained. υ Petroleum oil ocor VI80081 ty: 5 05 t at 40.0 VOC Content: Not gotofminog. Vager Pressure: Not deterained Appoarenso: Pale 11gu1d Other: None Comments: X8401048 **BUON** 1000

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Hezertowe Pelymerizations: DO NOT OCCUR

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PROCUCT CODE: 01887 NAME: RANDO HO 32

Date Issued: 05-02-08 Supersedes: 12-08-95

11. TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA) Modian Lothal Dose Orel: LD50 Similar product > 22.40 g/kg (rat) practically non-toxic Inhalation: Not Catermined. Cornel: LDBO Similar product > 2.00 g/kg (rabbit) practically non-toxic Irritation Indax, Estimation of Irritation (Species) Skin: (Draize) .79 /8.0 (rabbit) slightly irritating Eyes: (Draize) 8.00 /110 (rabbit) no appreciable effect Sonsitization: Not determined. 01197: None

#### 12. DISPOSAL CONSTDURATIONS

#### Vasto Oleposel Kothede

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous wasta if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteris for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

#### Bossarks

None

#### 13. TRANSPORT INFURMATION

#### Transportation

DOT; Proper Shipping Name: Net regulated

#### INDO:

Proper Shipping Name: Not evaluated

#### ICAD:

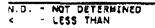
Proper Shipping Nems: Not evaluated

#### TDQ:

Proper Shipping News: Not eveluated

#### 14. RECULATORY INPOSMATION

Federal Regulations: BARA TICIÓ III: Section 302/304 Extremely Hazardous Substances CAS Number Range in % Seg. Chamical Name None Section 302/304 Extremely Mazardous Substances (CONT) Seg. TPO <u>_____RQ</u>___ None Section 311 Hazardous Categorization: Acuto Chronic Fire Pressure Reactive N/A X --Section 313 Toxic Chemical CAS NUMBER Concentration Chemical Name None PAGE : 5 N.A. - NOT APPLICABLE - GREATER THAN N.T. - NOT TESTED



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uare Issued: 05-02-98 PRODUCT CODE: 01687 Supersedes: 12-06-95 HAME: RANDO HO 32 14. REQULATORY INFORMATION (CONT) CERCLA 102(a)/DOT Nazardous Substances: (+ indicates DOT Hazardous Substance) CAS Number Range in % Seq. Chemical Name None CERCLA/BOT Mazardous Substances (Sequence Numbers and RQ's): Seg. RO TSCA Inventory Status: This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (ISCA) Chamical Substance Inventory. Athan: None. State Regulations: California Proposition 06: The following detectable components of this product are substances. or belong to classes of substances, known to the State of California to gauge cancer and/or reproductive toxicity. Chemical Nema CAS Number Nona States Right-to-knew Regulations: Chemical Name State Right-to-know Nona State list: CT (Connecticut), FL (Florida), IL (Illinois), HI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pannoylvanis), RI (Rhode Island) International Regulations: Export Notification (TSCA-12b): This product may be subject to export notification under TSCA section 12(b); contains: 2-Ethylhexanol WHIS Claysification: Not regulated Canada Inventory Status: This product, or its componants, are listed on or are exempt from the Canadian Domestic Substance List (DSL). **ZINZCS** Inventory Status: Not determined. Australia Inventory Status: Not deterained. Japan Inventory Status: Not daterained. 15. ENVIRONMENTAL INFORMATION Aquatic Taxisity: Not deterained. Madaility: Not datermined. Persistance and Biodogradability: Not determined. Potential to Bloaccusulato: Not determined. Reserve: None PAGE : 8 N.T. - NOT TESTED N.D. - NOT DETERMINED - LESS THAN N.A. - NOT APPLICABLE - GREATER THAN

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PRODUCT CODE: 01087 NAME: RANDO HO 32 Date Issued: 05-02-86 Supersedes: 12-08-95

#### 18. OTHER INFORMATION

#### None

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

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

Since the last mailing for this customer code, the following sections have been revised: 2,11,14,15,17.

Date; <u>05-02-96</u> New <u>X</u> Revised, Supersedes: <u>12-08-95</u> Date printed: <u>06-18-96</u>

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

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

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Date Issued: 05-02-96 PROCUCT CODE: 01857 Supersedes: 12-08-85 NAME: RANDO HD 32 1 abal Date: 05-02-95 17. PRODUCT LABEL READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD THIS COMMUNICATION STANDARD (29 CFR 1910, 1200) FOR USE IN THE WORKPLACE. LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS. 01657 RANDO HD 32 WARNING STATEMENT NONE CONSIDERED NECESSARY PRECAUTIONARY MEASURES -Avoid prolonged breathing of vapor, mist, or gas -Workers should wash exposed skin several times daily with scap and water. FIRST ALD Eye Contaut: Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists. Skin Contact: Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists. Ingestion: If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention. Inhalation: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing pecomes difficult or respiratory irritation persists. Noto to Physician: High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement. loss of function, or may require amputation of the affected area. FIRE In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers. Chemical Name CAS Number Range in % 64742-65-0 95.00-99.99 ø Solvent-dewaxed heavy paraffinic petroleum distillates PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200). # COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO DSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. Pennsylvania Special Hazardous Substance(s) CAS Number Range in % None MMIS NFPA Reactivity: 0 Hmalth: Reactivity: 0 Health: Flammability: 1 Flammability: 1 Spectal Special Transportation DOT: Proper Shipping Name: Not regulated CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place. PAGE: 8

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PRODUCT CODE: 01857 NAME: RANDO HD 32

Date Issued: 05-02-95 Supersedes: 12-08-98

17. PRODUCT LABEL (CONT)

Label Date: 05-02-98

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

TRANSPORTATION EM	Company: CHEMTREC:	 831-3400 424-9300

HEALTH EMERGENCY

(914) 831-3400 Company:

Insurret I (505) 353-0101New MexicoP.O. Box 1940Energy Minerals and Natural ResourcesHobbs, NM 88241-1980Energy Minerals and Natural ResourcesDistrict II (505) 748-1283Oil Conservation Division811 S. First2040 South Pacheco StreetArtesia, NM 882102040 South Pacheco StreetDistrict III (505) 354-0173Santa Fe, New Mexico 875051000 Rio Brazos Road(505) 827-7131Instrict IV (505) 827-7131Santa Fe, New Mexico 87505	<b>Department</b> Submit Orig Plus 1 Copy to appropria District Offic
REQUEST FOR APPROVAL TO ACCEPT S	OLID WASTE 96007
<ol> <li>RCRA Exempt: X Non-Exempt: DATE: 5-4-98</li> <li>Verbal Approval Received: Yes No By: D. Faust.</li> <li>Management Facility Destination <u>Tierra Environmental Land Farm</u> Address of Facility Operator <u>420 County Road 300 Aztra San Tion County NM 87500</u> Location of Material (Street Address or ULSTR) <u>61 County Road 4900 Blocm lie Id San Tion County NM 87403 <u>9 Check One</u> <u>All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate per job. <u>8 All requests for approval to accept non-exempt wastes must be accompanied by new will be approved. All transporters must certify that the wastes delivered are only the material is non-hazardous and the Generator's certification of origin. No waster will be approved. All transporters must certify that the wastes delivered are only the material of the material is non-hazardous and the Generator's certification of origin.</u></u></u></li> </ol>	cessary chemical analyses to prove classified as hazardous by listing or testing
	pecialist DATE 5-4-98
(This space for State Use) APPROVED BY Dempore Transformed TITLE Geolocist APPROVED BY Lay Internet TITLE Bick Kept	HONE NO DATE $575/98$ DATE $5-5'-98$

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# T1 1-334-9024

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Conoco IncNG&GP San Juan Gas Plant 61 CR 4900 <u>Bloomfield, NM 87413</u>	2. Destination Name: Tierra Environmental Co., Inc. Tierra Land Farm Faclity 420 CR 3100 Aztec, San Juan County NM 87410
3. Originating Site (name): Same As Above (Generator)	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate 4. Source and Description of Waste Sulfa Check System - H2S treating/sc Champion - Gas Treat 102 For the month of May	rubbing liquid
I. Richard R. Theander       (Print Name)	ery Act (RCRA) and Environmental Protection Agency's July, I waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic
and that nothing has been added to the exempt or n	میکند بر _{ایر ا} ین بر این
For NON-EXEMPT waste only the following documents of the following document	mentation is attached (check appropriate items): Other (description):
Name (Original Signature): <u>Richard Ha</u> Title: <u>Process Foreman</u> Date: <u>5-4-78</u>	Actual loads to be recieved on 5-6-98

DEC 31'96 12:47 FR CONO

JGP RMD

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Champion Technologies, Inc
Technologies, Inc

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GAS TREAT 102

General Exhavist: Recommended

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDUPES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Shut off ignition sources. No flares, smoking or flames in hererd area. Stop leak if you can do it without risk. Water apray may reduce vapor: hu it may not prevent ignition in closed areas. Take up spill with sand or other noncombustible absorbent material and place in containers for later disposal. Always wear proper personal protective equipment when appressing SPILL OR LEAK FLUSH SPILL AREA WITH PLENTY OF WATER.

WASTE DISPOSAL METHOD: Contact an EPA or State Approved Disposal Facility.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type): NONE REQUIRED UNDER NORMAN CONDITIONS

Ventilation: Local Exhaust: Recommended

Special: USE SCBA WHEN ENTERING TANKS

Protective Gloves: Chemically Resistant / Non-Slip

Eye Protection: Chemical Safety Goggles / Safety Glasses

Other Protective Clothing or Equipment: Coveralis, Splesh Aprons. Eye Wash, and Safety Shower

Work/Hygenit Proctices: Clean up Spills Promptly, Wash Contaminated Clothing.

SECTION 9 - SHIPPING DATA Champion Labol No. 45 Hazard Classification: UN/ML No.: Labels Required: BOI ER Guide Ro.:

6.1 UN 3139 OXIDIZER 45

Proper Shipping Name/Description: OXIDIZING SUBSTANCES. LIGHID, N.O.S., 5.1, UN 3139, PG 17 (SODIUM NITRITE)

R0 in lbs. R0 in gallons pH: Flash Point, F: Pkg. Group: INDG Pg.Ha.: 250 22 8.8-9.3 NONE II 5163 This information is based on data believed by Champion Technologies. Inc to be accurate, but no warranty, express or implied is made.

TOTAL PAGE . 006

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** TOTAL PAGE.204 **

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SECTION 5 - PHYSICAL HAZAPDS (REACTIVITY DATA)

JGP RMD

Chemical Stability: STABLE

Conditions To Avoid: OPEN FLAMES

Incompatibility (materials to avoid):

PREANICS, AMMONIUM SALTS, REDUCING ABENTS, WOOP Hezerdous Decomposition/Dyproducts: OXIDES OF CLABON & NITROGEN

Hazardous Polymerization: WILL NOT OCCUR

Hazard Rating Scale: HEALTH: 2 FIRE: 0 REACTIVITY 0

(d=severe, 3=serious. 3=mederate, 1=slight, 0=minima) 

SECTION 6 - HEALTH HAZARDS 

PRIMARY ROUTES OF ENTRY

Inhalation: X Absorption: X Ingestion: X Injection: NA

#### HEALTH HAZARDS:

Human health effects of overexposure to this product by skin on the contac may include skin irritation with discomfort or rash; or eye irritation with discomfort, tearing, or blurring of vision. Inhalation or ingestion may cause low blood pressure with headache, fainting, nauses. or weakness. This product can react with certain amines to form nitrosomines which may cause cancer. mutptions, or other toricity.

EMERGENCY & FIRST AID PROCEDURES:

In case of EYE contact, immediately flush eyes with running water and continue washing for at least 15 minutes. In case of INGESTION, give 2 glasses of water and induce vomiting. Obtain medical attention without delay. In case of SKIN contact, remove contaminated clothing and wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before rewearing. In case of INHALATION, remove to frash air. If not breathing, give artificial respiration. If breathing is difficult, oxygen may be given by qualified personnel.

IF CONDITIONS PERSIST, SEEK MEDICAL ATTENTION.

Carcinogenicity? NO

NTP? ND IARC Monograph .ND

OSHA Regulated? NO

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lechnologies, inc.		MATERIAL SAFETY	DATA SHEE	<b>.</b> r
	• -	GAS TREAT 1	Λ <b>Ο</b>	
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		4		
SECTION 1 - IDENTIFICAT	ION		, 18M	40088
Champson Technologies.		EMERGENCY	TE EDUONE	NI MARCOL
3130 FM 531 Fresho PO. BOX 450499 Housto	T.C. 77545	1-713-431-	3561	
Trada Name: RAS TR Chemical Family: INORGA	NIC SALTS	· · · · · ·	•	
C45 No.: 0000001ET107 2-	evared: 10/65/94	Prepared by: J. S	ichernict	
SECTION 2 - HAZARDOUS I	NGREDIENTS/ID	ENTITY		
Hazardous Component;	, ,	AS NO	ب حالت من	OGHA (PEL
SODIUM NITRITE	. 7	537-00-0 40	•	ND
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SECTION 3 - PHYSICAL *	CHEMICAL CHAR	ARA Title III Sector Six or 1 SARA Title III Hazard Cettyerin new to form Nitros	8m1nes-(5; •••••	,
Boiling Point, F:	CHEMICAL CHAR	ACTERISTICS Specific Gravity		1.25-1.3
Boiling Point, F: Vapor Pressure (mm Hg):	ND	ACTERISTICS Specific Gravity Evaporation Rate	(H20±1):	1.25-1.3
Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airtl): pH:	ND	ACTERISTICS Specific Gravity	(H20±1):	1.25-1.3
Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airtl): pH:	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE	ACTERISTICS Specific Gravity Evaporation Rate (butyl acctates1 Viscosity:	(H2O=1): ; ;	1.25-1.3 ND
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor:	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE DARK BLUE LI	ACTERISTICS Specific Gravity Evaporation Rate (butyl acctates1 Viscosity:	(H2O=1): ; ;	1.25-1.3 ND
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water:	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE DARK BLUE LI	ACTERISTICS Specific Gravity Evaporation Rate (butyl acctates1 Viscosity:	(H2O=1): ; ;	1.25-1.3 ND
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor:	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE TARK BLUE LI OSION DATA	ACTERISTICS Specific Gravity Evaporation Rate (butyl acetater1 Viscosity: GUID WITH MILD ODO	(H20±1):	1.25-1.3 ND 8 CP5
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Dansity (Airel): pH: Solubility in Water: Appearance and Odor: SECTION 4 - FIRE & EXPL Flash Point, F & Method	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE TARK BLUE LI OSION DATA	ACTERISTICS Specific Gravity Evaporation Rate (butyl acetater1 Viscosity: GUID WITH MILD ODO	(H20±1):	1.25-1.3 ND 8 CP5
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor: SECTION 4 - FIRE & EXPL Flash Point, F & Method NONE PMCC	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE TARK BLUE LI OSION DATA Flammab Based o	ACTERISTICS Specific Gravity Evaporation Rate (butyl acctater1 Viscosity: GUID WITH MILD ODO Le Limits: LEL, n: NA	(H2O=1): ) R & ND	1.25-1.3 ND 8 CP5
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor: SECTION 4 - FIRE & EXPL Flash Point, F & Method NONE PMCC	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE TARK BLUE LI OSION DATA Flammab Based of	ACTERISTICS Specific Gravity Evaporation Rate (butyl acetater1 Viscosity: GUID WITH MILD ODO Le Limits: LEL, n: NA	(H20=1): ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1.25-1.3 ND 8 CP5
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor: SECTION 4 - FIRE & EXPL Flash Point, F & Method NONE PMCC FIRE MAZARDS: This material may burn,	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE TARK BLUE LI OSION DATA Flammab Based of	ACTERISTICS Specific Gravity Evaporation Rate (butyl acetater1 Viscosity: GUID WITH MILD ODO Le Limits: LEL, n: NA	(H20=1): ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1.25-1.3 ND 8 CP5 UEL, \$ NI
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor: SECTION 4 - FIRE & EXPL Flash Point, F & Method NONE PMCC FIRE MAZARDS: This material may burn,	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE TARK BLUE LI OSION DATA Flammab Based of	ACTERISTICS Specific Gravity Evaporation Rate (butyl acetater1 Viscosity: GUID WITH MILD ODO Le Limits: LEL, n: NA	(H20=1): ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1.25-1.3 ND 8 CPS UEL.\$ NI
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor: SECTION 4 - FIRE 4 EXPL Flash Point, F & Method NONE PMCC FIRE MAZARDS: This material may burn, a fire hazard only if d EXTINGUISHING MEDIA: Flood fire area with we	ND ND ND 2 8-9 3 SOLUBLE DARK BLUE LI OSION DATA Flambab Based of but does not ried to a pow	Specific Gravity Evaporation Rate (butyl acetater) Viscosity: QUID WITH MILD ODO Le Limits: LEL, n: NA readly ignite. P der by boiling off	(H2OII): ) R ND roduct wou water.	1.25-1.3 ND 8 CPS UEL, * NI Id be
SECTION 3 - PHYSICAL # Boiling Point. F: Vapor Pressure (mm Hg): Vapor Density (Airel): pH: Solubility in Water: Appearance and Odor: SECTION 4 - FIRE & EXPL Flash Point, F & Method NONE PMCC FIRE MAZARDS: This material may burn, a fire hazard only if d EXTINGUISHING MEDIA:	CHEMICAL CHAR ND ND 2 8-9 3 SOLUBLE DARK BLUE LI OSION DATA Flambab Based of but does not ried to a pow	Specific Gravity Evaporation Rate (butyl acetater) Viscosity: GUID WITH MILD ODO Le Limits: LEL, n: NA readly ignite P der by boiling off der by boiling off	(H2OII): ) R ND roduct wou water.	1.25-1.3 ND 8 CPS UEL, * NI UEL, * NI

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P.O. Box 1940 Hobbs. NM 88241-1980 District II (505) 748-1283 811 S. First Artesia, NM 88210 District III (505) 334-6178 1000 Rio Brazos Road Aztee, NM 87410 District IV (505) 927 7131	Department Submit (): Plus 1 Conto appropr District ();
REQUEST FOR APPROVAL TO ACCEPT SC	DLID WASTE 9600
<ol> <li>RCRA Exempt: Non-Exempt: X DATE:</li> <li>Verbal Approval Received: Yes No By:</li> <li>Management Facility Destination</li> </ol>	<ul> <li>4. Generator</li> <li><u>Kry Four Corners Inc.</u></li> <li>5. Originating Site</li> </ul>
<u>Tierra Environmental Landfarm</u> 3. Address of Facility Operator <u>Hab County Road 3100 Aztre San Tuan County NM 57410</u> 7. Location of Material (Street Address or ULSTR)	6. Transporter 50NCO 8. State
<ul> <li><u>Assa Read and Havy 537 Ris Arr. ha County New Mexico</u></li> <li><u>9. Check One</u> <ul> <li>All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by nece the material is non-hazardous and the Generator's certification of ondin. No waste cwill be approved.</li> </ul> </li> <li>All transporters must certify that the wastes delivered are only the second seco</li></ul>	essary chemical analyses to prove lassified as hazardous by tisting or carrier
BRIEF DESCRIPTION OF THE MATERIAL: Contaminated Soil from Kefueling Area. DEC MA	EIVED Y - 5 1998 ON. DIV. IST. 3
Estimated Volume	tor at end of haul):yd :
SIGNATURE	<u>cialist</u> DATE <u>6-4-98</u> ONE NO. <u>(505) 334-3894</u>
(This space for State Use) APPROVED BY Demos Rent TITLE Geologist APPROVED BY Martin gath TITLE Emr Growing L	DATE 575798

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Key Four Coeners INC.	
	TIERRA LANDFARM
5651 US 64	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
SIMMS YARD	ROSA ROAD AND HIWAY 527
Attach list of originating altern on any solution	
Attach list of originating sites as appropriate 4. Source and Description of Waste	
CONTAMINATE & SUIL FCOM REFUELIN	
Contraction Refuel	VG H12E74
l	·
$11$ $\alpha$	
I, HAL STONE (Print Name) KEY FOUR CORNERS, INC.	representative for:
Ver Tour (Print Name)	
REY FOUR CORNERS, INC.	do hereby certify that ary Act (RCRA) and Environmental Protection Agency's July
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	
1990, regulatory determination, the above described	TASTO IS' (CURCK WHICHING CIARBILGATION)
EXEMPT oilfield waste X NON-EXE analysis o	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents of the following document of the following doc	mentation is attached (check appropriate items): Other (description):
Name (Original Signature): Lal Stone Title: CENERAL MANAGER - TRUCKING	
Title: <u>CENERAL II/ANAGER - /RUCKING</u>	VIVISION
Title: <u>CENERAL 11/4WAGER - /RUCKWO</u> Date:	VIVISION

Conoco		
GASC0220	Revised 17-NOV-1995	Printed 8-APR-1998
N	o. 2 Diesel Fuel	
CHEMICAL PRODUCT/COMPA	ANY IDENTIFICATION	
Material Identification Corporate MSDS Number	DU007262	
CAS Number	68476-34-6	
<pre># Tradenames and Synonyms Diesel Fuel No. 2, Low Diesel Fuel No. 2, Hig</pre>	/ Sulfur h Sulfur	
Company Identification MANUFACTURER/DISTRIBUT Conoco, P.O. Bo Houston	Inc.	
PHONE NUMBERS Product Information Transport Emergency Medical Emergency	1-281-293-5550 CHEMTREC 1-800-424-9300 1-800-441-3637	
COMPOSITION/INFORMA IIO	N ON INGREDIENTS	
Components Material	CAS Number	8
DIESEL FUEL NO. 2	68476-34-6	100

## HAZARDS IDENTIFICATION

Potential Health Effects

Primary Routes of Entry: Skin, inhalation

The product may cause irritation to the eyes, nose, throat, lungs, and skin after prolonged or repeated exposure. Extreme overexposure or aspiration into the lungs may cause lung damage or death. Overexposure may cause weakness, headache, hausea,

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#### HAZARDS IDENTIFICATION(Continued)

confusion, blurred vision, drowsiness, and other nervous system effects; greater overexposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

Combustion Product - Carbon Monoxide:

Carbon monoxide decreases the ability of the blood to carry oxygen.

Inhalation may cause headache, nausea, rapid respirations, vomiting, dizziness, confusion, impaired judgement, personality changes memory impairment, mediated, chartness of breath, unconsciousness, convulsions and death if not treated. It may cause chest pains in persons with heart disease. Carbon monixde poisoning can cause pallor (whiteness) or cyanosis (blueness) or the skin and extremities.

High exposures to carbon monoxide may cause heart irregularities.

Carbon monoxide may adversely affect the unborn babies of pregnant women.

#### Carcinogenicity Information

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

#### FIRST AID MEASURES

#### First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

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

Notes to Physicians

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

# FIRE FIGHTING MEASURES

#### Flammable Properties

Flash Point	130 F (54 C)
Method	TCC
Flammable limits in	n Air, % by Volume
LEL	0.4
UEL	6
Autoignition	494 F (257 C)

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification Class II Combustible Liquid.

#### Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

#### Fire Fighting Instructions

Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from sources of potential ignition.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

Use water to keep fire-exposed containers cool. If leak or spill has not idnited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

## ACCIDENTAL RELEASE MEASURES

#### Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

NOTE: Vapors released from the spill may create an explosive atmosphere.

(Continued)

# ACCIDENTAL RELEASE MEASURES(Continued)

## Initial Containment

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

#### Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

# HANDLING AND STORAGE

#### Handling (Personnel)

Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects) Ground container when pouring. Keep and from neat, sparks and flames. Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of fire.

#### Storage

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

published respirator protection factors.

#### Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

#### Personal Protective Equipment

RESPIRATORY PROTECTION Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and

PROTECTIVE GLOVES

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

EYE PROTECTION Safety glasses with side shields. Chemical splash goggles or face shield for spray/mists or if splashing can occur.

OTHER PROTECTIVE EQUIPMENT Coveralls with long sleeves if splashing is probable.

(Continued)

## EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

Exposure Guidelines Exposure Limits No. 2 Diesel Fuel PEL (OSHA) TLV (ACGIH)

None Established None Established

## PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point Vapor Pressure Vapor Density % Volatiles Solubility in Water Odor Form Color Specific Gravity 350-690 F (177-366 C) 1 mm Hg @ 68 F (20 C) >1 (Air=1.0) Nil Insoluble Aromatic. Liquid. * 0.84-0.88 @ 60 F (16 C) )

*Color : Red or Undyed (Clear or Straw-Colored)

## STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid Heat, sparks, and flames.

Incompatibility with Other Materials Incompatible or can react with strong oxidizers.

#### Decomposition

Carbon monoxide may be formed from incomplete combustion.

#### Polymerization

Polymerization will not occur.

# TOXICOLOGICAL INFORMATION

#### Animal Data

Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver

(Continued)

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# TOXICOLOGICAL INFORMATION(Continued)

tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting a skin affects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils. Other laboratory studies indicate that middle distillates caused the skin tumors by promoting, rather than initiating, the formation of tumors, so the effect is probably dose-related and low level exposure should not be carcinogenic.

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lungs and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Acute toxicity data from studies supported by the American Petroleum Institute with a generic diesel fuel sample:

Oral, rat : LD50 at 9 ml/kg Dermal, rabbit : No mortality at 5 mL/kg Dermal Irritation, rabbit : Extremely irritating Eye Irritation, rabbit : Not irritating

# ECOLOGICAL INFORMATION

Ecotoxicological Information No specific aquatic data available for this product.

## DISPOSAL CONSIDERATIONS

Waste Disposal

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

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

#### Container Disposal

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

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# TRANSPORTATION INFORMATION

Shipping Information DÔT Proper Shipping Name Diesel fuel Hazard Class Combustible liquid I.D. No. (UN/NA) NA1993 Packing Group III DOT Label(s) None DOT Placard Combustible ICAO/IMO Proper Shipping Name Gas Oil Hazard Class 3 UN/NA Number UN1202 Packing Group III Label Flammable liquid Placard Flammable

# **REGULATORY INFORMATION**

#### U.S. Federal Regulations OSHA HAZARD DETERMINATION This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

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

SARA, TITLE III, 302/304 This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes Ginconic : Yes Fire : Yes Reactivity : No Pressure : No

SARA, TITLE III, 313 This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RCRA This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it

(Continued)

# **REGULATORY INFORMATION**(Continued)

meets criteria for being ignitable according to U. S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

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

Ingredient Reportable Quantity Petroleum Hydrocarbons. Film or sheen upon or discoloration of any water surface.

# State Regulations (U.S.)

CALIFORNIA "PROP 65" This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient	Diesel Fuel Oil
Category	Hazardous Substance.

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

Transport/Medical Emergency Phone Number: 1-613-348-3616

#### OTHER INFORMATION

NFPA, NPCA-HMIS NFPA Rating Health Flammability Reactivity	0 2 0					
NPCA-HMIS Rating Health Flammability Reactivity	1 2 0				·	
Personal Protection conditions.	rating to be	supplied	by user	depending	on use	

(Continued)

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

		<u> </u>
Telephone	1 - 281 - 293 - 4386	
Address	PO Box 2197 Houston, TX 77252	
	Conoco Inc.	· · ·
Responsibility for MSDS	MSDS Coordinator	· .

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# Indicates updated section.

End of MSDS

Insurict I(505) 353-0101P.O. Box 1940New MexicoHobbs, NM 88241-1980Energy Minerals and Natural ResourcesDistrict II(505) 748-1283811 S. FirstOil Conservation DivisionArtesia, NM 882102040 South Pacheco StreetDistrict III(505) 334-61781000 Rio Brazos RoadSanta Fe, New Mexico 87505Aztec, NM 87410(505) 827-7131	Department Submit Ori Plus 1 Copy to appropri: District Off
REQUEST FOR APPROVAL TO ACCEPT SC	OLID WASTE 9600'
1. RCRA Exempt: Non-Exempt: X DATE:	4. Generator
Verbal Approval Received: Yes No By: 2. Management Facility Destination <u>Tierra Environmental Landform</u> 3. Address of Facility Operator <u>420 County Road 3100 Aztec, San Tuan County, NM 87400</u> 7. Location of Material (Street Address or ULSTR) <u>3801 SouthSide River Rd Faceningth, San Juan County, NM</u> 9. <u>Check One</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a contificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by nece the material is non-hazardous and the Generator's certification of origin. No waste child be approved.	8. State           New Mexico           certificate of waste from the Generator: one
All transporters must certify that the wastes delivered are only th	ose consigned for transport.
BRIEF DESCRIPTION OF THE MATERIAL: Solids from Frac Jank Cleaning Process DE Estimated Volume _ 200 BB/S S Known Volume (to be entered by the operated	BCEIVED APR 2 9 1998 L CON. DIV. DIST. 3 tor at end of haul):yd ³
$\sum i a d i$	
	ONE NO. (505) 334-8894
(This space for State Use)	and the state of the
APPROVED BY Deny B. Zeruf TITLE Geologist APPROVED BY Maryn Phile TITLE 4m Grobyist	DATE <u>4/29/98</u> DATE <u>5/5/98</u>

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:						
Key Four CorNors ING.	TIERRA LAND FAR						
	TIERRAF LAND FARM						
5651 0.5.64							
3. Originating Site (name): BUNCO TEUCHING	Location of the Waste (Street address &/or ULSTR):						
PIPEUARD (TANK CLEMNING FACILITY)	3801 South SIDE RIVER Rd FARMINGTON						
	FARMING TON						
Attach list of originating sites as appropriate							
4. Source and Description of Waste							
SOLIDS FROM FRAC TANK CLE	Any in Dancer						
	NN6 410(035						
	· • • • • • • • • • • • • • • • • • • •						
1. HAL STONE Key FOUR CORVERS, INC.	representative for:						
VEN Four (Print Name)	· · · · ·						
	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,						
1988, regulatory determination, the above described							
	·						
<b>EXEMPT</b> oilfield waste <b>NON-EXEMPT</b> oilfield waste which is non-hazardous by characteristic analysis or by product identification							
	by product montheation						
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 docur MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):						
Name (Original Signature):							
Title: GENERAL MANAGER - TRUCKING	DIVISION						
Date: 4-21-98							

Inter Mountain Laboratories, Ir.

2506 W. Main Street Farmington, New Mexico 87401

April 3, 1998

Michael Talovich Sunco Trucking 708 S. Tucker Farmington, NM 87401

Mr. Talovich:

Enclosed, please find the reports for the samples received by our laboratory for analysis on March 20, 1998.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

We appreciate your business!

Sincerg liana

Shardn Williams Organics Lab Supervisor

Enclosures xc: File .

# **CASE NARRATIVE**

Date: April 3, 1998

Client: Sunco Trucking

Project: Pipe Yard Sample No. 0398G01388-1389 # San

# Samples: 2

Dear Client:

The sample or samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Due to the nature of the sample matrix for the sludge sample, we were unable to obtain the recommended acceptable Cation/Anion Balance of 5%.

Analytical results were obtained by approved methods. Practical quantitation limits (PQL) were determined for each parameter for various matrices, and standard preparation dilutions. Quantitative results are reported on an "as received" basis for non-aqueous matrices.

If you have any question, please call me at our toll free number 1 (800) 828-1409.

/John Green Water Lab Supervisor IML-Farmington, NM

Inter Mountain Laboratories, Inc.

2506 W. Main Street Farmington, New Mexico 87401

# SUNCO TRUCKING

# Case Narrative

On March 20, 1998, samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The samples were identified by project "Pipe Yard", and were analyzed for the parameters indicated on the accompanying Chain of Custody document #51988.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analyses of the samples reported herein are found in <u>Test Methods For</u> <u>Evaluation of Solid Waste</u>, SW-846, USEPA, 1986, and <u>Methods For Chemical Analysis of Water and Wastes</u>, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

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Organics Lab Supervisor

Inter-Mountain Laboratories, h.

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							2506 W. Main Street Farmington, New Mexico 87401				
Client:	Sunco Trucking						·	J			
Project:	Pipe Yard				•						
-	Pipe Yard						Data 6	Pacelyad	02/20	000	
Sample ID:	· · · · · · · · · · · · · · · · · · ·						Date Received: 03/20/98				
Lab ID:	0398G01389					Date Reported:					
Matrix: Sludge 🛩							Date Sampled:			03/20/98	
Condition:	Intact						Time Sampled: 1500				
		Analytical					Analysis				
Para	imeter	Result	Units		Units	PQL	Method	Date	Time	Init.	
General Paran	neters										
РН		7.6	S.U.			0.1	EPA 150.1	03/20/98	1600	BJ	
Electrical Conductivity		3,030	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP	
Solids - Total Dissolved		2,240	mg/L			10	EPA 160.1	03/26/98	1340	BJ	
Solids - Total Dissolved (Calc)		1,540	mg/L			10	Calculation	04/03/98	1425	JG	
Solids-Total		4,480	mg/L			10	EPA 160.3	03/27/98	0910	BJ	
Alkalinity (CaCO3)		449	mg/L			1	EPA 310.1	03/24/98	0930	AP ·	
Hardness (CaCO3	)	399	mg/L			1	Calculation	04/03/98	1425	JG	
Major Anions											
Bicarbonate (HCO3)		547	mg/L	8.97	meq/L	1	EPA 310.1	03/24/98	0930	AP	
Carbonate (CO3)		<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP	
Hydroxide (OH)		<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP	
Chloride		140	mg/L	3.95	meq/L	1	EPA 300.0	03/26/98	0800	AP	
Nitrogen - Nitrate/Nitrite		0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH	
Sulfate		414	mg/L	8.63	meq/L	5	EPA 300.0	03/26/98	0800	AP	
Major Cations											
Calcium		134	mg/L	6.69	meg/L	0.2	EPA 200.7	03/26/98	0630	ST	
Magnesium		15.6	mg/L	1.28	meq/L	0.2	EPA 200.7	03/26/98	0630	ST	
Potassium		260	mg/L	6.65	meq/L	0.2	EPA 200.7	03/26/98	0630	ST	
Sodium		309	mg/L	13.4	meq/L	0.2	EPA 200.7	03/26/98	0630	ST	
Cation / Anion	Balance QC Informati	on									
Anion Sum				21.5	meq/L	0.01	Calculation				
Cation Sum				28.1	meq/L	0.01	Calculation				
Cation/Anion Balar	nce			13.2	%	N/A	Calculation				

2506 W. Main Street

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.

EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

John Green, Water Lab Supervisor

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Client:	Sunco Trucking						·	<b>g</b> .o., ,		
Project:	Pipe Yard									
Sample ID:	Pipe Yard						Date F	Received:	03/20	0/98
Lab ID:	0398G01388						Date F	Reported:	04/03	3/98
Matrix:	Water						Date S	Sampled:	03/20	0/98
Condition:	Intact						Time	Sampled:	1500	
		Analytical						Ana	lysis	
Para	a <u>meter</u>	Result	Units		Units	PQL	Method	Date	<u>Time</u>	Init.
General Paran	neters									
РН		7.2	s.u.			0.1	EPA 150.1	03/20/98	1600	BJ
Electrical Conduct	livity	720	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP
Solids - Total Diss	solved	430	mg/L			10	EPA 160.1	03/26/98	1340	ВJ
Solids - Total Diss	olved (Calc)	410	mg/L			10	Calculation	04/03/98	1425	JG
Solids-Total		540	mg/L			10	EPA 160.3	03/27/98	0910	BJ
Alkalinity (CaCO3)	)	101	mg/L			1	EPA 310.1	03/24/98	0930	AP
Hardness (CaCO3	3)	213	mg/L			1	Calculation	04/03/98	1425	JG
Major Anions										
Bicarbonate (HCC	)3)	123	mg/L	2.02	meq/L	1	EPA 310.1	03/24/98	0930	AP
Carbonate (CO3)		<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Hydroxide (OH)		<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Chloride		83	mg/L	2.33	meq/L	1	EPA 300.0	03/26/98	0800	AP
Nitrogen - Nitrate/	Nitrite	0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH
Sulfate		116	mg/L	2.42	meq/L	5	EPA 300.0	03/26/98	0800	AP
Major Cations	5									
Calcium		68.5	mg/L	3.42	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Magnesium		10.1	mg/L	0.83	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Potassium		21.9	mg/L	0.56	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Sodium		53.5	mg/L	2.33	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Cation / Anior	n Balance QC Informa	ation								
Anion Sum				6.77	meq/L	0.01	Calculation			
Cation Sum				7.14	meq/L	0.01	Calculation			
Cation/Anion Bala	ince			2.66	%	N/A	Calculation			

2506 W. Main Street Farmington, New Mexico 87401

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.

EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93(100 August, 1983.

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#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

#### Client: SUNCO TRUCKING

Sample ID: Pipe Yard Project ID: Pipe Yard Lab ID: B981209 Matrix: Water		Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	04/02/98 03/20/98 03/24/98 NA 03/31/98
Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	、 ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/Լ
1,2-Dichloropropane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1-Chlorohexane	ND	5.0	ug/L
2-Chloroethylvinyl ether	ND	5.0	ug/L
Benzyl chloride	ND	5.0	ug/L
bis(2-Chloroethoxy)methane	ND	5.0	ug/L
bis(2-Chloroisopropyl)ether	ND	5.0	ug/L
Bromobenzene	ND	5.0	ug/L
Bromodichloromethane	5.3	5.0	ug/L
Bromoform	8.4	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chloroacetaldehyde	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Chloromethylmethyl ether	ND	5.0	ug/L
Chlorotoluene	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Dibromomethane	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Tetrachloroethene (PCE)	ND	5.0	ug/L

**Reference:** Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

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#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

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Client:	SUNCO TRUCKING			
Sample ID:	Pipe Yard		Date Reported:	04/02/98
Project ID:	Pipe Yard		Date Sampled:	03/20/98
Lab ID:	B981209		Date Received:	03/24/98
Matrix:	Water		Date Extracted:	NA
			Date Analyzed:	03/31/98
trans-1,2-D	Dichloroethene	ND	5.0	ug/L
trans-1,3-D	Dichloropropene	ND	5.0	ug/L
Trichloroet	hene (TCE)	ND	5.0	ug/L
Trichloroflu	Joromethane	ND	5.0	ug/L
Trichloropr	opane	ND	5.0	ug/L
Vinyl Chlor	ide	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

**Reference:** Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

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#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

Client:	SUNCO TRUCKING		
Sample ID:	Pipe Yard	Date Reported:	04/02/98
Project ID:	Pipe Yard	Date Sampled:	03/20/98
Lab ID:	B981210 /	Date Received:	03/24/98
Matrix:	Sludge	Date Extracted:	04/01/98
		Date Analyzed:	04/01/98

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,1-Trichloroethane	ND	1.5	mg/kg
1,1,2,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,2-Trichloroethane	ND	1.5	mg/kg
1,1-Dichloroethane	, ND	1.5	mg/kg
1,1-Dichloroethene	ND	1.5	mg/kg
1,2-Dichlorobenzene	ND	1.5	mg/kg
1,2-Dichloroethane	ND	1.5	mg/kg
1,2-Dichloropropane	ND	1.5	mg/kg
1,3-Dichlorobenzene	ND	1.5	mg/kg
1,4-Dichlorobenzene	ND	1.5	mg/kg
1-Chlorohexane	ND	1.5	mg/kg
2-Chloroethylvinyl ether	ND	1.5	mg/kg
Benzyl chloride	ND	1.5	mg/kg
bis(2-Chloroethoxy)methane	ND	1.5	mg/kg
bis(2-Chloroisopropyl)ether	ND	1.5	mg/kg
Bromobenzene	ND	1.5	mg/kg
Bromodichloromethane	ND	1.5	mg/kg
Bromoform	ND	1.5	mg/kg
Bromomethane	ND	1.5	mg/kg
Carbon Tetrachloride	ND	1.5	mg/kg
Chloroacetaldehyde	ND	1.5	mg/kg
Chlorobenzene	ND	1.5	mg/kg
Chloroethane	ND	1.5	mg/kg
Chloroform	ND	1.5	mg/kg
Chloromethane	ND	1.5	mg/kg
Chloromethylmethyl ether	ND	1.5	mg/kg
Chlorotoluene	ND	1.5	mg/kg
cis-1,3-Dichloropropene	ND	1.5	mg/kg
Dibromochloromethane	ND	1.5	mg/kg
Dibromomethane	ND	1.5	mg/kg
Dichlorodifluoromethane	ND	1.5	mg/kg
Methylene chloride	ND	1.5	mg/kg
Tetrachloroethene (PCE)	ND	1.5	mg/kg

Reference: Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

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#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

Client:	SUNCO	TRUCKING
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Sample ID: Pipe Yard		Date Reported:	04/02/98
Project ID: Pipe Yard 🦯		Date Sampled:	03/20/98
Lab ID: B981210		Date Received:	03/24/98
Matrix: Sludge		Date Extracted:	04/01/98
		Date Analyzed:	04/01/98
trans-1,2-Dichloroethene	ND	1.5	mg/kg
trans-1,3-Dichloropropene	ND	1.5	mg/kg
Trichloroethene (TCE)	ND	1.5	mg/kg
Trichlorofluoromethane	ND	1.5	mg/kg
Trichloropropane	ND	1.5	mg/kg
Vinyl Chloride	ND	1.5	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

**Reference:** Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

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## **VOLATILE AROMATIC HYDROCARBONS**

Client:	Sunco Trucking		
Project ID:	Pipe Yard	Report Date:	03/31/98
Sample ID:	Pipe Yard	Date Sampled:	03/20/98
Lab ID:	0398G01388	Date Received:	03/20/98
Sample Matrix:	Water	Date Extracted:	NA
Condition:	Cool/Intact	Date Analyzed:	03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	55	1.0
Toluene	422	1.0
Chlorobenzene	ND	1.0
Ethylbenzene	163	1.0
m,p-Xylenes	665	1.0
o-Xylene	199	1.0
1,3-Dichlorobenzene	4.87	1.0
1,4-Dichlorobenzene	22	1.0
1,2-Dichlorobenzene	15.8	1.0

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	106.0%	70 -130%
Reference:	· · · · · · · · · · · · · · · · · · ·	d Trap; Method 602, Purge nalysis of Municipal and In	

Comments:

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#### TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

Client:	Sunco Trucking		
Project:	Pipeyard	Date Reported:	03/30/98
Sample ID:	Pipeyard	Date Sampled:	03/20/98
Laboratory ID:	0398G01388	Date Received:	03/20/98
Sample Matrix:	Water	Date Analyzed:	03/28/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	0.24	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

**References:** Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

**Comments:** 

Reported By:

Reviewed:

### TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

Client:	Sunco Trucking
Project:	Pipeyard
Sample ID:	Pipeyard /
Laboratory ID:	0398G01389
Sample Matrix:	Sludge 7

Date Reported:03/30/98Date Sampled:03/20/98Date Received:03/20/98Date Analyzed:03/28/98

Parameter	a serve a statistic france in the statistic states and serve as a server	Detection Limit	a series of the balance of a series of the s	Y State State
Arsenic	0.005	0.005	5	mg/L
Barium	6.94	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

**References:** Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

**Comments:** 

Reported By:

Reviewed:

## **Quality Control / Quality Assurance**

Spike Analysis / Blank Analysis TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client: Project: Sample Matrix: Sunco Trucking Pipeyard Extract

Date Reported:03/30/98Date Analyzed:03/28/98Date Received:03/20/98

	Spike Result	Sample Result	Spike Added	Percent
Parameter	<u>(mg/L)</u>	<u>(mg/L)</u>	<u>(mg/L)</u>	Recovery
Arsenic	0.029	0.00	0.025	104%
Barium	2.63	1.55	1.00	108%
Cadmium	1.020	<0.004	1.000	102%
Chromium	1.08	<0.01	1.00	108%
Lead	0.92	<0.05	1.00	92%
Mercury	0.005	<0.001	0.005	104%
Selenium	0.023	<0.005	0.025	92%
Silver	N/A	N/A	N/A	N/A

#### Method Blank Analysis

Parameter	Result	Detection Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

#### **References:**

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

N/A=Data not available. **Comments:** Reported by

Reviewed by

## **Quality Control / Quality Assurance**

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client: Project: Sample Matrix: Sunco Trucking Pipeyard Extract Date Reported:03/30/98Date Analyzed:03/28/98Date Received:03/20/98

	Kr	iown Analysi	S	
Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.011	0.010	110%	mg/L
Barium	0.95	1.00	95%	mg/L
Cadmium	1.040	1.000	104%	mg/L
Chromium	1.05	1.00	105%	mg/L
Lead	0.95	1.00	95%	mg/L
Mercury	0.004	0.004	100%	mg/L
Selenium	0.010	0.010	100%	mg/L
Silver	2.05	2.00	103%	mg/L

**References:** 

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by

Reviewed by

2506 W. Main Street Farmington, New Mexico 87401

## **Quality Control / Quality Assurance**

Known Analysis Purgeable Aromatics

Client: Project:

.

Sunco Trucking Pipe Yard Date Reported: 03/31/98 Date Analyzed: 03/30/98

**Known Analysis** 

Parameter	Found Result (ppb)	Known Result (ppb)	Percent Recovery	Acceptance Limits
Benzene	19.3	20.0	97%	70-130%
Toluene	19.6	20.0	98%	70-130%
Chlorobenzene	19.6	20.0	<b>98%</b>	70-130%
Ethylbenzene	19.7	20.0	<b>99</b> %	70-130%
m+p-Xylene	40.7	40.0	102%	70-130%
o-Xylene	20.1	20.0	100%	70-130%
1,3-Dichlorobenzene	20.2	20.0	101%	70-130%
1,4-Dichlorobenzene	20.7	20.0	104%	70-130%
1,2-Dichlorobenzene	20.3	20.0	102%	70-130%

Quality Control: Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	101.3%	70-130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst_

Reviewed by

## VOLATILE AROMATIC HYDROCARBONS QUALITY CONTROL REPORT

#### Method Blank Analysis

Sample Matrix:	Water	Report Date:	03/31/98
Lab ID:	Method Blank	Date Analyzed: ·	03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	95.0%	70-130%
Reference:		d Trap; Method 602, Purgeat nalysis of Municipal and Indu	•

**Comments:** 

AN

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## VOLATILE AROMATIC HYDROCARBONS QUALITY CONTROL REPORT

#### Matrix Spike Analysis

Lab ID:	0398G01384	Report Date:	03/31/98
Sample Matrix:	Water	Date Analyzed:	03/30/98
Condition:	Cool/Intact		

Target Analyte	Spiked Sample Result in ppb	Sample result in ppb	Spike Added (ppb)	% Recovery	Acceptance Limits (%)
Benzene	29.70	12.10	20.0	88.0%	70-130
Toluene	31.50	15.00	20.0	82.5%	70-130
Chlorobenzene	20.60	ND	20.0	103.0%	70-130
Ethylbenzene	21.20	ND	20.0	106.0%	70-130
m,p-Xylenes	42.90	2.70	40.0	100.5%	70-130
o-Xylene	20.20	1.90	20.0	91.5%	70-130
1,3-Dichlorobenzene	16.10	ND	20.0	80.5%	70-130
1,4-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130
1,2-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	102.3%	70 -130%
	Mathead 5000 David Tes	. Mathad COO Dura abla Ara	mation. Matheda

Reference:Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods<br/>for Organic Chemical Analysis of Municipal and Industrial Wastewater,<br/>USEPA, October 1984.

Comments:

Analyst (

## VOLATILE AROMATIC HYDROCARBONS QUALITY CONTROL REPORT

#### **Duplicate Analysis**

Lab ID:	0398G01384	Report Date:	03/31/98
Sample Matrix:	Water	Date Analyzed:	03/30/98
Condition:	Cool/Intact		

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	12.9	12.1	6.4
Toluene	16.1	15	7.1
Chlorobenzene	ND	ND	NA
Ethylbenzene	ND	ND	NA
m,p-Xylenes	2.44	2.7	10.1
o-Xylene	2.01	1.9	5.6
1,3-Dichlorobenzene	ND	ND	NA
1,4-Dichlorobenzene	ND	ND	NA
1,2-Dichlorobenzene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	90.8%	70 -130%

Reference:Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods<br/>for Organic Chemical Analysis of Municipal and Industrial Wastewater,<br/>USEPA, October 1984.

Comments:

Analyst

### LAB QA/QC EPA METHOD 8010 METHOD BLANK

Date Analyzed: 03/31/98 Lab ID: MBW000090 Matrix:

Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l
1,1,1-Trichloroethane	ND	5.0	ug/l
1,1,2,2-Tetrachloroethane	ND	5.0	ug/l
1,1,2-Trichloroethane	ND	5.0	ug/l
1,1-Dichloroethane	ND	5.0	ug/l
1,1-Dichloroethene	ND	5.0	ug/l
1,2-Dichlorobenzene	ND	5.0	ug/l
1,2-Dichloroethane	ND	5.0	ug/l
1,2-Dichloropropane	ND	5.0	. ug/l
1,3-Dichlorobenzene	ND	5.0	ug/
1,4-Dichlorobenzene	ND	5.0	ug/
1-Chlorohexane	ND	5.0	ug/
2-Chloroethylvinyl ether	ND	5.0	ug/l
Benzyl chloride	ND	5.0	ug/l
bis(2-Chloroethoxy)methane	ND	5.0	ug/
bis(2-Chloroisopropyl)ether	ND	5.0	ug/
Bromobenzene	ND	5.0	ug/
Bromodichloromethane	ND	5.0	ug/
Bromoform	ND	5.0	ug/
Bromomethane	ND	5.0	ug/
Carbon Tetrachloride	ND	5.0	ug/
Chloroacetaldehyde	ND	5.0	ug/
Chlorobenzene	ND	5.0	ug/
Chloroethane	ND	5.0	ug/
Chloroform	ND	5.0	ug/
Chloromethane	ND	5.0	ug/
Chloromethylmethyl ether	ND	5.0	ug/
Chlorotoluene	ND	5.0	ug/
cis-1,3-Dichloropropene	ND	5.0	ug/
Dibromochloromethane	ND	5.0	ug/
Dibromomethane	ND	5.0	ug/
Dichlorodifluoromethane	ND	5.0	ug/
Methylene chloride	ND	5.0	ug/
Tetrachloroethene (PCE)	ND	5.0	ug/
trans-1,2-Dichloroethene	ND	5.0	ug/
trans-1,3-Dichloropropene	ND	5.0	ug/
Trichloroethene (TCE)	ND	5.0	ug/

Analyst_

Su

#### LAB QA/QC EPA METHOD 8010 METHOD BLANK

Date Analyzed: 03/31/98 Lab ID: MBW000090 Matrix:

Parameter	Result	PQL	Units
Trichlorofluoromethane	ND	5.0	ug/L
Trichloropropane	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst Willi hyp

r

Laboratories, Inc.

Frank and a

## CHAIN OF CUSTODY RECORD

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Client/Project Name SUNCO TRUCK	ING	<u> </u>		Project Locat			1		ANA	YSES	6 / PAF	RAMETE	RS	
Sampler: (Signature) Mille / alow	il		Chair	n of Custody Ta			5	/ .	/	1	/	Re	marks	
Sample No./ Identification	Date	Time	Lab Nun	nber	Matrix	~	No. of Containers							
WATER Pipe Yard	3-20-98	1500			HL O	)	8							
Studge Tipetprod					Slud	ge	4							
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Relinquished by: (Signature)				Date	Time	Received	by labora		D		,		Date 3-11-48	Time 1545
<u> </u>			Intor-Ma	ountain La	horatari			<b>}</b> ⁄		Ine	<u> </u>		- 2015	1, 2, 2
1633 Terra Avenue Sheridan, Wyoming 828 Telephone (307) 672-89	301 Gille	l Phillips Cir tte, Wyomin phone (307)	cle g 82718	2506 West Ma Farmington, N Telephone (50	in Street M 87401	1160 Rese Bozeman, Telephone	earch Dri Montana	i 59718	Co		tation, T	30 X 77845 76-8945	519	86

Insure: p P.O. Box 1940New MexicoHobbs, NM 88241-1980Energy Minerals and Natural ResourcesDistrict II 811 S. FirstConservation Division	Form C-
Artesia, NM 88210       2040 South Pacheco Street         District III (505) 334-6178       Santa Fe, New Mexico 87505         1000 Rio Brazos Road       (505) 827-7131         District IV (505) 827-7131       (505) 827-7131	Submit Ori Plus 1 Cop to appropri District Ofi
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 980 39
1. RCRA Exempt: X Non-Exempt: DATE: 4-24-98	4. Generator
Verbal Approval Received: Yes X No By: E. Busch	RED CEDAR GIATHERING
2. Management Facility Destination TIFERA Environmenting LANDFARM FACILITY	5. Originating Site Coyote Gulch Comp state
3. Address of Facility Operator <i>420 CR 3100 Aztec NM 87410</i>	6. Transporter Moss Excavation
7. Location of Material (Street Address or ULSTR)	8. State
SECTION 17 TOWNSHIP 32N RANGE IIW	ColoRADO
<ul> <li>9. <u>Check One</u></li> <li>All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste chwill be approved.</li> <li>All transporters must certify that the wastes delivered are only the material and the generator's certification of one only the second second</li></ul>	ssary chemical analyses to prove assified as hazardous by listing or testing
BRIEF DESCRIPTION OF THE MATERIAL: CONTAMINATED SOILS Operations	From Dehy
DECEIVI APR 2 8 1996	<u>s</u> D
Estimated Volumeyd ³ Known Volume (to be entered by the sperate	or at end of haul):10yd ³
SIGNATURE Bain Wellen TITLE ENVIRONMENTE SPE	TCINCIST DATE 4-24-98
TYPE OR PRINT NAME BLAINE WILLIAMS TELEPH	ONE NO(505) 334-8894
(This space for State Use) APPROVED BY Denny Jo Denn TITLE Geologist	4/30/GO
APPROVED BY The Brand TITLE Cologist	date <u>7/30/98</u> date <u>4/30/98</u>



## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	
I ned and an application a company	2. Destination Name:
Red Cedar Gathering Company	
26266 Highway 160	
Durango, CO 81301	TIERRA ENVIRONMENTAL CO FUC, LAWSFAPPIN
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Covote Gulch Compressor Stat	ion, La Plata County Colorado
Section 17, 32N 11W	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
· ·	11 from Dehydration@Equipment,
(Soil Discolored by Glycol a	nd Oil)
(SOIL DISCOLOTED DY GIVEOL D	
•	
	منابع <del>المس</del> احية المتحصيرية المساحدة المرابع المساحدة المرابع المساحد المتكون المساحد المساحد المساحد المرابع ال
I, James H. Mayo	representative for:
(Print Name)	any do hereby certify that
Red. Cedar Gathering Comp	very Act (RCRA) and Environmental Protection Agency's July
1988, regulatory determination, the above describe	
	EMPT oilfield weste which is non-hazandous by characteristic
	EMPT oilfield weste which is non-hazardous by characteristic of by product identification
analysis	or by product identification
	or by product identification
analysis and that nothing has been added to the exempt or	or by product identification non-exempt non-hazardous waste defined above.
analysis and that nothing has been added to the exampt or For NON-EXEMPT waste only the following doc MSDS Information	or by product identification non-exempt non-hazardous waste defined above.
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following doc MSDS Information RCRA Hazardous Waste Analysis	or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items):
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analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following doc MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature): Control of Custody	er by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following doc MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	er by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): Other (description):

## **CERTIFICATE FROM OUT OF STATE AGENCY**

## AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE

### FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the enclosed information concerning the oilfield waste material from location <u>Coyote Gulch Compressor Station</u> and agree that by its description it is non-hazardous and therefore exempt from regulation by the Resource Conservation and Recovery Act (RCRA) and my jurisdictions rules, regulation or statute.

<u>xx</u> The material is exempt from regulation because it is classified as nonhazardous oilfield waste by definition.

The material is exempt from regulation by characteristic analyses.

The material is exempt from regulation by product identification.

#### **THEREFORE:**

As a representative for <u>Bureau of Indian Affairs</u> I have no objections to the material being removed to New Mexico.

NAME: Danny H	Breuninger	TITLE	: Superintendant
SIGNATURE:	Atta Affilia	DATI	E: 4/3/9/
AGENCY:	Bureau of Indian	Affairs - So	outhern Ute Agency
ADDRESS:	P.O. Box 315, Ic	gnacio, CO. 8	1137
PHONE:	(970) 563-4514		

			•
Hobbs, NM         88241-1980         Energy Minerals and Oil Con           District II         (505) 748-1283         Oil Con           811 S. First         2040 Sci	servation Division outh Pacheco Street	Department	COLIN C-1. Originateri 4/18/05 Submit Origi
1000 Rio Brazos Road	, New Mexico 87505 505) 827-7131		Plus 1 Copy to appropriat District Offic
REQUEST FOR APPRO	OVAL TO ACCEPT SC	LID WASTE 9803	8
Verbal Approval Received: Yes No	ATE: 4-22-98 By: D. Foust.	4. Generator Red Bedar Bather:	g
2. Management Facility Destination		5. Originating Site	•
3. Address of Facility Operator	1 4 2	6. Transporter	
7. Location of Material (Street Address or ULS	STR)	Riley Industrie 8. State	<u>д</u>
Sec-2, T-32N, R-90 La Plata County 9. Check One		Calorado	
A. All requests for approval to accept oilfield exempt v certificate per job.	wastes will be accompanied by a c	certificate of waste from the General	or; one
B. All requests for approval to accept non-exempt was the material is non-hazardous and the Generator's will be approved.	stes must be accomanied by nece certification of origin. No waste cl	essary chemical analyses to prove lassified as hazardous by listing or t	esting
All transporters must certify that the wastes	delivered are only th	ose consigned for trar	isport.
BRIEF DESCRIPTION OF THE MATERIAL:	موری به انجاز روان به از ر <del>ام این م</del> رون به ما		
Used Charcoal Filler Media		DECEIVED N APR 2 9 1998	
		OIL COM. DIV DIST. 3	<b>)</b>
Estimated Volumeyd ³ Known Volu	ime (to be entered by the operat	tor at end of haul):	yd ³
SIGNATURE	•	م مرابع المعلق <u>4</u> -2 NONE NO. (505) 334-8	
			ي معموم مريخ و مريخ و معموم مريخ و معموم و معموم و معموم و مريخ و مع
APPROVED BY Denny B. Jeeur TITLE	Geolosist	DATE 4/30/	198
APPROVED BY Frie Binch TITLE	Geologist	DATE 4/30	198

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# CERTIFICATE OF WASTE STATUS

F Contraction of the second se	2. Destination Name:
Red Cedar Gathering Company	
26266 HWY 160	
Durango, CO 81301	TIERRA ENVIRON MENTAL COFUC, LAND FARM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Arkansas Loop Natural Gas Trea	ting Facility, La Plata County Colo.
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
During the week of Armin ( 100)	х
filter media will be exchanged	approximately 6 yards of chemical
During the week of April 20 190	approximately 6 yards of charcoal
filter media will be exchanged	in Plant 1.
1,Jim_H_ Mayo	representative for:
(Print Name)	
Red Cedar Gathering Company	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,
1300, regulatory determination, the above described	wasto 12: frueor abbiobilito grantificación
XX EXEMPT ciffield waste NON-EXE	MPT oilfield waste which is non-hazardous by characteristic
	MPT oilfield waste which is non-hazardous by characteristic r by product identification
analysis o	r by product identification
	r by product identification
analysis o	r by product identification on-exempt non-hazardous waste defined above.
analysis o and that nothing has been added to the exempt or m For NON-EXEMPT weste only the following docum MSDS Information	r by product identification on-exempt non-hazardous waste defined above.
analysis o and that nothing has been added to the exempt or m For NON-EXEMPT weste only the following docum MSDS Information RCRA Hazardous Waste Analysis	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or m For NON-EXEMPT weste only the following docum MSDS Information	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or m For NON-EXEMPT weste only the following docum MSDS Information RCRA Hazardous Waste Analysis	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
analysis o and that nothing has been added to the exempt or ne For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	r by product identification on-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 ne For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
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analysis o and that nothing has been added to the exempt or m For NON-EXEMPT weste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature): Manager: Safety and Environ	r by product identification on-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 m For NON-EXEMPT wests only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature):	r by product identification on-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 m For NON-EXEMPT weste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature): Manager: Safety and Environ	r by product identification on-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 m For NON-EXEMPT weste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature): Manager: Safety and Environ	r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): Other (description):

PLANT #2

## **CERTIFICATE FROM OUT OF STATE AGENCY**

### **AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE**

### FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the enclosed information concerning the oilfield waste material from location <u>Arkansas Loop Plant-LaPlata Cty</u>, <u>Colo</u> and agree that by its description it is non-hazardous and therefore exempt from regulation by the Resource Conservation and Recovery Act (RCRA) and my jurisdictions rules, regulation or statute.

x The material is exempt from regulation because it is classified as nonhazardous oilfield waste by definition.

The material is exempt from regulation by characteristic analyses.

The material is exempt from regulation by product identification.

#### **THEREFORE:**

As a representative for <u>Bureau of Indian Affairs</u> I have no objections to the material being removed to New Mexico.

NAME: Danny H. Breuninger	TITLE: <u>Superintendent</u>
SIGNATURE: Affetture	DATE: 3/5//98
AGENCY: <u>Bureau of Indian Affairs</u>	, , , , , , , , , , , , , , , , , , ,
ADDRESS: PO Box 315, Ignacio, CO 811	37
PHONE: (970) 563-4514	

ORIGINALS MAILED - 04/01/98 to Mr. Mayo

Instrict I (505) 333-0101 P.O. Box 1940 Hobbs, NM 88241-1980New Mexico Energy Minerals and Natural Resources I Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 1000 Rio Brazos Road Aztec, NM 87410New Mexico (505) 827-7131	<b>Corginated 4/18-35</b> <b>Department</b> Submit Origi Plus 1 Copy to appropriat District Offic
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 98030 9600
1. RCRA Exempt: 9r5 Non-Exempt: DATE: 3-23-98	4. Generator
<ul> <li>Verbal Approval Received: Yes No By: D. Foust</li> <li>2. Management Facility Destination <ul> <li>Tierra Environmental Load farm</li> </ul> </li> <li>3. Address of Facility Operator <ul> <li>420 County Road 3100 Aztrc, San Juan County Nm 87410</li> </ul> </li> <li>7. Location of Material (Street Address or ULSTR) <ul> <li>AO Martin#1 NESE-Co, 32-N, Co-W, NmPm La Plate Co, co</li> </ul> </li> <li>9. Check One <ul> <li>All requests for approval to accept oilfield exempt wastes will be accompanied by a coefficate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necest the material is non-hazardous and the Generator's certification of origin. No waste carvillo be approved.</li> </ul> </li> </ul>	: ssary chemical analyses to prove assified as hazardous by listing or testing
BRIEF DESCRIPTION OF THE MATERIAL: Drilling Mud composed of Ignacio City water, bentonite an Need originals of at	OIL CON. DUV.
Estimated Volume <u>400 BB15</u> Known Volume (to be entered by the operat	or at end of haul):yd ³
SIGNATURE	DATE DATE ONE NO. 505 334-8894 DATE $\frac{4/17/98}{4117/98}$ DATE $\frac{4117/98}{4117/98}$

505 334 9024 TIERRA ENVIRON 001 22505 334 90 11:29 03/23/98 Post-It" brand fax transmittel memo 7671 | # of pages > 101 CERTIFICATE OF WASTE STATUS Columnado O, 1 & Cors Consv. Co. Destination Mame: T. p. r-ra 1120 Lincoln Ste Sal Forming ton, New Mexico Denser, CO 90203 87401-5250 3. Originating Site (name): Location of the Waste (Street address &/or ULSTR); AO Mantin # 1 NESE 6 32N GW NMPM La Plata County CO Attent list of originating sites as comprises A. Source and Description of Wests 400 50 bbl drulling mud, composed Cuty of Ignamo water, bandon to, and lime No Norms FA atteo representative for: (Print Name) (). Id Gas omness ion slovado do hereby certify that, ハハッチャック・ 10 A LANA asserding to the Recourse Conservation and Recovery Act (RCRA) and Environmental Protestion Agancy's July, 1988, regulatory determination, the above described weete is: (Check oppropriate deselfication) **EXEMPT** oilfield waste NON-EXEMPT offield waste which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above. For NON-EXEMPT waste only the following documentation is attached (check appropriate items): MSDS Information Other (description): **RCRA Hazardous Waste Analysis** Chain of Custody Name (Original Signature): Titie: Date:

86728723

61:11

**13**505 334 9024

## TIERRA ENVIRONMENTAL COMPANY Inc.

420 COUNTY ROAD 3100 AZTEC, NEW MEXICO 87410



P.O, DRAWER 15250

FARMINGTON, NEW MEXICO 87401-5250

PHONE (505) 334-8894 FAX (505)334-9024

#### CERTIFICATE FROM OUT OF STATE AGENCY

AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE

#### TO THE TIERRA CROUCH MESA LANDFARM LOCATED

IN SAN JUAN COUNTY, NEW MEXICO

I have reviewed the enclosed information concerning RCRA exempt material gene Location: $AOMartin #1 NESE 632N$	srated at;	NMPM
by; Generator: Colorado Oil + Gas Conservation	Com	<u></u>
As a representative of ;		
Agency Colorado Oil & Gas Conjervation	Com	mess with
I have no objection to the material being moved from our jurisdiction to the Tierra Landfarm located at 420 County Road 3100, San Juan County, New Mexico.	a Crouch N	/iesa
Name: Ed D. Matter Title: 3, Son,-	Eng	Ince
Signature: Col N. Matter Date: 3/23/9	Ŵ	
Phone: 303-894-2100 Fax: 303-894-2108	, . ;•	

. i				
District :       P.O. Box 1940         Hobbs, NM 88241-1980         District II (505) 748-1283         811 S. First         Artesia, NM 88210         District III (505) 334-6178         1000 Rio Brazos Road         Aztec, NM 87410         District IV (505) 827-7131	204	New Mexico and Natural Reso Conservation Divi O South Pacheco Str Fe, New Mexico 8 (505) 827-7131	ision reet	ent Submit ( Plus 1 C, to approj District (
	REQUEST FOR AP	PROVAL TO ACCE	PT SOLID WAS	TE
<ul> <li>3. Address of Facility</li> <li>420 C. R. 3100</li> <li>7. Location of Materia</li> <li>110 Cochi ti</li> <li>9. Check One</li> <li>A. All requests certificate per</li> <li>B. All requests to</li> </ul>	ity Destination <u>mental Landfarm</u> Operator <u>Aztec, San Juan</u> al (Street Address or <u>Facmington</u> , San Juan for approval to accept oilfield exe	<u>County NM 874</u> ULSTR) <u>County NM 8</u> mpt wastes will be accompan	6. Trans 6. Trans 70 8. State 7401 New nied by a certificate of wa	nating Site <u>e Vard</u> sporter <u>UCO Trucking</u> <u>Mexico</u> iste from the Generator: one analyses to prove
Will be approv All transporters mus BRIEF DESCRIPTION OF	t certify that the was		_	<u> </u>
Mixed 3 yards	of 75 gal. of a		OPECEIV APR 1 7 199 OPECEIV	
Estimated Volume	<u> </u>	Volume (to be entered by t	the operator at end of h	aui):yœ
SIGNATURE	r .		,	- DATE <u>4-15-98</u> (505) 334-8894
(This space for State Use) APPROVED BY <u> )emp</u> APPROVED BY	B. Peent_TITLE	Geologist	D.	ate <u>4/20/98</u>
APPROVED BY	TITLE	Env. Geologis	+ D.	ATE 4/21/58

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:	
FOUR CONVERS AIR BERVICE INC.	TIEREA LAND FARM	
	MERCA LAND ARM	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):	
SERVICE YARD		
	110 COCHITI- AUR	
	FARMINGTON, NM	
Attach list of originating sites as appropriate		
incerd	ental spill of 75 gal. fuel From storage trank.	
Of unused diesel	fuel From storage trank.	
	-	
Mixed 3 yards of clean	n dirt to stabilize	
	· · ·	
1, <u>PATRICK</u> Drake	representative for:	
	ruice, INC, do hereby certify that,	
	ry Act (RCRA) and Environmental Protection Agency's July,	
1988, regulatory determination, the above described		
<b>EXEMPT</b> oilfield waste <b>NON-EXEMPT</b> 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 only the following docum	nentation is attached (check appropriate items):	
$\underline{X}$ MSDS Information	Other (description):	
RCRA Hazardous Waste Analysis Chain of Custody		
1/1/1/2		
Name (Original Signature):	we	
Title:	VIUL .	
Date: $4 - 15 - 98$		

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ા છે. પ્રેરે દિવા પૈરી દરિવાર કે કે પ્રેરે પ્રાથમિક પ્રદેશ છે. દેવા છે. દેવા છે. દેવા છે. દેવા છે છે. દેવા છે છ • •	1455214722000-0145190-0-045-06-05-00-00-070-04552-04560-04552-0660-045-04-045-04-04-04-04-04-04-04-04-04-04-04	and and a set of the second	atraticity and destances of any are	 
)3-26-70 CSS-14004	MATERIAL SAFETY BLOOMFI	DATA SHEET 00: FUD REFINING (	. + +	PAGE
	SECTION 1 - MANUFA	CTURER INFORMA	NOITI	• • • •
	ang pan kan nan kan kan tan pan pan pan tan kan nan ana ana ana ana ana ana ana a			· · · ·
MANUF/DIST : BLOOMF F.O. B BLOOMF PREPARER/CONTACT: JIM	EME OX 159 FRE IELD NM	RGENCY PHONE Faration/revie 87413		
LOCATION : UNITS				•
CHEMICAL NAME/ CHEMICAL FAMIL	ONYMS: DIESEL SYNONYMS: FUEL OIL Y: HYDROCAR NO INFOR	BON		
HAZARD	OUS MATERIAL IDENT	IFICATION SYST	EM (HMIS)	
	*****	*****************************	. <b></b>	
	×	· · ·	*	
		0 BILITY 2	*	
		VITY 0	*	
	* PROTEC *	TIONY	*	
	****	****	**	
	SECTION 2 - HAZAR		ITS	
THIS PRODUCT CONTAINS	HAZARDOÙS INGREDI	ENTS : YES		
CHEMICAL/CO COMPLEX COMBINATION OF AND CRACKED HYDROCARBO ADDITIVES WHICH ARE NO HAZARDOUS IN CONCENTRO	DNS. CONTAINS DT CONSIDERED	CAS-NUMBER MIXTURE	7. FE 100 N/	L-OSHA TLV-ACGIH I N/I
THIS PRODUCT CONTAINS	CARCINOGENS (NTP,	IARC, or OSHA	):NO	
CHEMICAL/CO SEE SECTION 3 "HEALTH		CAS-NUMBER	7.	NTF LARC OSHA
	SECTION 3 - HEAL		A .	
HEALTH EFFECTS (Acute WARNING, MINIMIZE BREA CONCENTRATION OF VAPOR LOSS OF CONSCIOUSNESS HARMFUL IS SWALLOWED F ASPIRATION OF VOMITUS	THING VAPORS. REPE May cause Headach or even death. Reputting in Nause/	HE, DIZZIN <mark>ess,</mark> N. Vomitin <mark>g, d</mark>	NAUSEA,	INCOORDINATION ND RESTLESSNESS.

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PROLONGED AND REFEATED LINULD CONTACT CAN CAUSE DEPATTING AND DRYING OF THE SETS RESULTING IN SELM TRALESTION AND DERMALTERS.

03-26-90 CSS-14004

HUMAN EXFOSURE TO DIESEL EXAUST.

EYE AND SKIN CONTACT. INHALATION.

FRIMARY ROUTES OF ENTRY-

#### MATERIAL SAFETY DATA SHEET 00110 REDOMETEED REFINING CO

ACCORDING TO NIOSH STUDY RELEASED AUGUST, 1988 THE TOXICOLOGIC AND EPIDEMIOLO IC FINDINGS SUGGEST A POTENTIAL OCCUPATIONAL CARCINOGENIC HAZARD EXISTS IN

PAGE

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-N/I EMERGENCY FIRST AID PROCEDURES-EYES: FLUSH WITH WATER FOR 15 MINULES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEE A PHYSICIAN. INHALATION: REMOVE VICTIM TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. CIVE ARTIFICIAL RESPIRATION IF NOT BREATHING, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VEMITING. IF VEMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIP TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION. SECTION 4 - CHEMICAL DATA -BOILING POINT (F)...: 357SPECIFIC GRAVITY (WATER=1)....: .83VAPOR PRESSURE (mmHg): N/APERCENT VOLATILE BY VOLUME (%).....: 100VAPOR DENSITY (AIR=1): N/AEVAPORATION RATE (BUTYL ACETATE =1): N/A SOLUBILITY IN WATER-14/台 APPEARANCE AND ODOR INFORMATION-AMBER BROWN COLOR SLIGHTLY VISCOUS LIQUID WITH HYDROCARBON ODOR. SECTION 5 - PHYSICAL HAZARD DATA FLASH FOINT (Method Used): 148 F TAG C - FLAMMABLE LIMITS : Le1=0.7 - UEL=5.0 EXTINGUISHING MEDIA-WATER SPRAY, FOAM, DRY CHEMICAL OR CO 2.

SPECIAL FIRE FIGHTING PROCEDURES-USE WATER TO KEEP EXPOSED CONTAINERS COOL. IF A SPILL OR LEAK HAS NOT IGNITED USE WATER SPRAY TO DISPERSE THE MAPORS AND PROMIDE PROTECTION FOR MEN ATTEMPTING TO STOP A LEAK.

ENUSUAL FIRE AND EXPLOSION HAZARDS-

03-26-90 CSS-14004

#### MATERIAL SAFETY DATA SHEET 00110 Shoomfield refining co.

INCOMPATIBILITY (Materials to avoid) -AVOID HEAT, SPARKS, OPEN FLAME, AND STRONG DXIDIZING AGENTS, PREVENT VAPOR ACCUMULATION.

MAZARDOUS DECOMPOSITION FRODUCTS-CARBON MONDXIDE AND OTHER ORGANIC COMPOUNDS CAN BE FORMED UPON COMBUSTION. (SEE SECTION 3 "HEALTH HAZARD DATA"

WILL HAZARDOUS POLYMERIZATION OCCUR-WILL NOT OCCUR

CONDITIONS TO AVOID FOR POLYMERIZATION-

TS THE PRODUCT STAFT -YES

CONDITIONS TO AVELD FOR STARLEITY-N/T

### SECTION 5 - SFILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-ISOLATE HAZARD AREA. WEAR APPROPRIATE RESPIRATOR AND CLOTHING. SHUT OFF SOURC OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OF POMP TO STORAGE SALVAGE VESSELS.SOAK UP RESIDUE WITH AN ABSORBANT SUCH AS CLAY, SAN OR OTHER SUITABLE MATERIAL, PLACE IN D.O.T. AUTHORIZED NON-LEAKING CONTAINERS FOR FROPER DISPOSAL. SMALL SPILLS, TAKE UP WITH AN ABSORBANT MATERIAL AND DISPOSE AS ABOVE.

WASTE DISPOSAL METHODS-RECOVERED PRODUCT SHOULD BE RECYCLED. WASTE GENERATED DURING CLEANUP WHICH IS DISCORDED AS A COLLD WASTE CHOPEN OF DISPOSED OF AT A FACILITY AFFROVED UNDER RCRA REGULATIONS FOR HAZARDOUS WASTE.

SECTION 7 - EXPOSURE CONTROL INFORMATION

RESPIRATORY PROTECTION UNDER CONDITONS OF POTENTIAL HIGH EXPOSURE, THE USE OF A NIOSH APPROVED AESPIRATOR IS RECOMMENDED. PER 27 CFR 1910.134 USE EITHER AN ATMOSPHERE SUPPLYING RESPIRATOR OR AN AIR PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

PROTECTIVE GLOVED INTERVIOUS PAGL

00-26-90 038-14004

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## MATERIAL SAFITY DATA SHEET 00110 BLOOMFILLD REFINING CO.

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FAGE

OTHER PROTECTIVE EQUIPMENT-EYE PROTECTION AND PROTECTIVE CLONEDHOLD

OTHER ENGINEERING CONTROLS-N/1

WORK PRACTICES-N/I

HYDIENIC PRACTICES-Wash Thoroughly before eating, drinking or smoking.

SECTIONS SECTIONS

PRECAUTIONS TO BE TARENTEN HAMDLING AND STORAGE. The EXPLOSION PROOF VENTILATION AS RECOVED TO CONTROL VAPOR CONCENTRATIONS.

MAINTENANCE PRECOULIONS: NZI

THER PRESENTIONS For USE AS A MOTOR FUEL ONLY. DO NUT USE AS A SUCANING SOLVENT OR FOR OTHER NON MOTOR FUEL USES.

ł,

ALDITIONAL COMMENTS-NZI

District II(505) 333-6101New MexicoP.O. Box [1940New MexicoNew MexicoHob*s. NM 88241-1980Energy Minerals and Natural Resources IDistrict II(505) 748-1283811 S. FirstOil Conservation DivisionArtesia. NM 882102040 South Pacheco StreetDistrict III(505) 334-61781000 Rio Brazos RoadSanta Fe, New Mexico 87505Aztec. NM 87410(505) 827-7131	Department Submit Ori Plus 1 Cop to appropri District Off
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE
<ol> <li>RURA Exempt: X Non-Exempt: DATE: 4-8-98</li> <li>Verbal Approval Received Yes No By: D. Foust.</li> <li>Management Facility Destination <u>Tierra Environmental Landform</u> <u>Address of Facility Operator</u> <u>Address of Facility Operator</u> <u>Address of Facility Operator</u> <u>Address of Material (Street Address or ULSTR)</u> <u>Section, K, Township-30N, Range-11W Saw Swan County:</u> <u>9. Check One</u> <u>All requests for approval to accept oilfield exempt wastes will be accompanied by a coefficate per job.</u> <u>B. All requests for approval to accept non-exempt wastes must be accompanied by nece the material is non-hazardous and the Generators certification of origin. No waste chwill be approved. All transporters must certify that the wastes delivered are only the second provement wastes are only the second provement. <u>All transporters must certify that the wastes delivered are only the second provement wastes deliver</u></u></li></ol>	ssary chemical analyses to prove assified as hazardous by listing or testing
BRIEF DESCRIPTION OF THE MATERIAL: Earthen Pit Remediation DECEIVED APR 201998 ODL CON. DUV. DUCTE 3	
Estimated Volume <u>//// yd</u> ³ Known Volume (to be entered by the operat	tor at end of haul):yd ³
	ONE NO
(This space for State Use)	
APPROVED BY Denny B. Point TITLE Geolog 15t APPROVED BY Chine Bunch TITLE Geolog-35	DATE 22 78

r

# CERTIFICATE OF WASTE STATUS

1.

1.	Generator Name and Address:	2. Destination Name:
	Manana Gas. Inc. 2520 Tramway Terrace Crt., NE	Tierra Environmental Company, Inc. P.O. Drawer 15250
	Albuquerque, N.M. 87122	Farmington, N.M. 87401
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Bobbie Herrera # 1 A dual completion in the Pictured	Section K 4, 30N , $11W$
	and Fruitland formations	
4.	Attach list of originating sites as appropriate Source and Description of Waste	
	Earthern Pit Remediation	
L		
_ ،ا	Edward M. Hartman	representative for:
	(Print Name)	· · · · · · · · · · · · · · · · · · ·
198	Manana Gas, Inc. ording to the Resource Conservation and Recover 88, regulatory determination, the above described	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
198	Manana Gas, Inc. ording to the Resource Conservation and Recover 88, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
198 <u>XX</u>	Manana Gas, Inc. ording to the Resource Conservation and Recover 88, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT cliffield waste which is non-hazardous by characteristic by product identification
198 <u>XX</u> and	Manana Gas, Inc. ording to the Resource Conservation and Recover 88, 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) IPT cliffic!d waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198 <u>XX</u> and For	Manana Gas, Inc. Fording to the Resource Conservation and Recover 88, regulatory determination, the above described EXEMPT oilfield waste	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT cilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. hentation is attached (check appropriate items): Other (description): 
198 <u>XX</u> and For	Manana Gas, Inc. Fording to the Resource Conservation and Recover 88, regulatory determination, the above described EXEMPT oilfield waste	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT cilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. hentation is attached (check appropriate items): Other (description): 

District II         (505) 748-1283         Oil C           811 S. First         2040	New Mexico nd Natural Resources onservation Division South Pacheco Street Fe, New Mexico 87505 (505) 827-7131	Department Submit Origi Plus 1 Copy to appropria: District Offic
	ROVAL TO ACCEPT SO	OLID WASTE
1. RCRA Exempt: Non-Exempt:	DATE: 4-3-98	4. Generator
Verbal Approval Received: Yes No	By: D. Foust.	PNM Gas Services
2. Management Facility Destination	$\underline{}$	5. Originating Site
Tierra Environmental Landt	1 arm	Randleman #1
3. Address of Facility Operator		6. Transporter
<u>420 C.R. 3100 Aztec San Juan (</u> 7. Location of Material (Street Address or L	11 STR)	Philip Services
The result of matchar (Street Address of C		8. State
Sec - 13, T-31N, R-11W Unit K	Jan Juan County	NM
9. <u>Check One</u>		
A. All requests for approval to accept oilfield exer certificate per job.	npt wastes will be accompanied by a	certificate of waste from the Generator: one
B. All requests for approval to accept non-exempt the material is non-hazardous and the Generat will be approved.	wastes must be accomanied by nec or's certification of origin. No waste	essary chemical analyses to prove classified as hazardous by listing or testing
All transporters must certify that the wast	es delivered are only th	nose consigned for transport.
BRIEF DESCRIPTION OF THE MATERIAL:		in in the provide state of the second state of the second state of the second state of the second state of the
Earthen Pit Remediation	RE	Geimed
·		
	OUL	Coin. Div. Dist. 3
	<b>**</b>	na na sana ang sa sana ang sa
Estimated Volume <u>2000</u> yd ³ Known	Volume (to be entered by the oper	ator at end of haul):yd ³
	E <u>Énvironmental 3</u>	pecialist DATE 4-2-9
TYPE OR PRINT NAME Nobis	TELEP	HONE NO. 505 334-8894
(This space for State Use)		
PPROVED BY Ferry S: M TITLE	Geolocis	DATE
PPROVED 6 / TITLE		DATE 4-10-98

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
PNM GAS SERVICES	I IERRA ENVIRONMENTAL CO. INC.
	LAND FARM FACILITY
603 W. ELM FREMINGTON NM	· .
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
RANDLEMAN #1	Sec-13, T-3IN, R-11W
	UNIT K
Attach list of originating sites as appropriate 4. Source and Description of Waste	
4. Source and Description of waste	
Fapithen	Pit REMEDIATION
01101-01-	
· · · · · · · · · · · · · · · · · · ·	
I, <u>GARI COOK</u> (Print Name) <u>PNM GAS SERVICES</u>	representative for:
(Print Name)	·
PNM GAS SERVICES	do hereby certify that,
1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	<b>IPT</b> 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 docum MSDS Information RCRA Hazardous Waste Analysis	nentation is attached (check appropriate items): Other (description):
Chain of Custody	
	. /
Name (Original Signature):	t
Name (Original Signature): Man S. M. Title: <u>Invin-gam/r/</u> Contributer	

P.O. Box 1940 Hobbs, NM 88241-1980 District II (505) 748-1283 811 S. First Artesia, NM 88210

<u>ມາສພາບນີ້ 1.</u> (ວນວີ) ວົວ<mark>ອີ-ບ</mark>າບັນ

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<u>District III</u> (505) 334-6178 1000 Rio Brazos Road Aztec, 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

Submit Ori Plus i Cop to appropri District Ofi

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REQUEST FOR APPROVAL TO ACCEPT SC	LID WASTE 98019
1. RCRA Exempt: X Non-Exempt: DATE: 3-10-98	4. Generator
Verbal Approval Received: Yes $\chi$ No By: D. Foust	RED CEAR GATHERING.
2. Management Facility Destination	5. Originating Site
TIERAA Environmental Co Inc LAMBFARM	ARKANSAS LOOP Plant
3. Address of Facility Operator	6. Transporter
420 CR 3100 Aztec NM 87410	
7. Location of Material (Street Address or ULSTR)	8. State
5-2 T-32N R-9W CAPTAR Cty. Co.	ColeRADO
9 Check One	

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

B. All requests for approval to accept non-exempt wastes must be accomanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.

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

BRIEF DESCRIPTION OF THE MATERIAL	
DIL CONO DIVO MAR 2 4 1998 OIL CONO DIVO DISTO 3 Estimated Volume 10	COAL FINES AND OIL CONTAMINATED Soil From Northeal Gias Inlet Scrubber and Filteration System Heldfor legibility Known Volume (to be entered by the operator at end of haul):yd ³
TYPE OR PRINT NAME BLATTLE U	<u>JILIANIS</u> TELEPHONE NO. 505) 334-8894
(This space for State Use)	
APPROVED BY / en,	TITLE <u>Geologist</u> DATE 10 98
APPROVED BY	TITLE <u>Field Rep TT</u> DATE9

. ....

1. Generator Name and Address:	2. Destination Name:
Red Cedar Gathering Company	
26266 Hwy. 160	
Durango, CO 81301	
Durango, co orsor	TIEERA Environment Co Fuc, LANSFARM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR);
Bonded Field Compressor Station	, LaPlata County CO
Sec 24, 33 N 10 W	. ,
	·
Attach list of originating sites as appropriate	· .
4. Source and Description of Waste	
Contaminated Soil due to spill	from Dehydration Equipment
(Soil Discolored by Glycol and	oil)
	· · ·
· · · · · · · · · · · · · · · · · · ·	
L James H. Mayo	representative for:
(Print Name)	
4. F4137 3. AMALI 807	
Red Cedar Gathering Company	
Red Cedar Gathering Company	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
Red Cedar Gathering Company	ry Act (RCRA) and Environmental Protection Agency's July,
Red Cedar Gathering Company according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July, wasta is: (Check appropriate classification)
Red Cedar Gathering Company according to the Resource Conservation and Recove 1988, regulatory determination, the above described X EXEMPT oilfield waste NON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, wasta is: (Check appropriate classification) APT oilfield waste which is non-hazardous by characteristic
Red Cedar Gathering Company according to the Resource Conservation and Recove 1988, regulatory determination, the above described X EXEMPT oilfield waste NON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, wasta is: (Check appropriate classification)
Red Cedar Gathering Company according to the Resource Conservation and Recove 1988, regulatory determination, the above described X EXEMPT oilfield waste NON-EXEM	wasta is: (Check appropriate classification) APT oilfield waste which is non-hazardous by characteristic by product identification
Red_Cedar_Gathering_Company_according to the Resource Conservation and Recover 1988, regulatory determination, the above described         X       EXEMPT oilfield waste         NON-EXEMAND       Analysis of analysis o	ry Act (RCRA) and Environmental Protection Agancy's July, wasta is: (Check appropriate classification) APT oilfield wasta which is non-hazardous by characteristic by product identification
Red_Cedar_Gathering_Company_         according to the Resource Conservation and Recove         1988, regulatory determination, the above described        X       EXEMPT oilfield waste          NON-EXEMPT analysis of and that nothing has been added to the exempt or no         For NON-EXEMPT waste only the following documents	ry Act (RCRA) and Environmental Protection Agency's July, wasta is: (Check appropriate algorithmicistion) APT oilfield waste which is non-hazardous by characteristic by product identification m-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
Red_Cedar_Gathering_Company_         according to the Resource Conservation and Recove         1988, regulatory determination, the above described        X       EXEMPT oilfield waste          NON-EXEMPT analysis of         and that nothing has been added to the exempt or no         For NON-EXEMPT waste only the following docum        MSDS Information	ry Act (RCRA) and Environmental Protection Agency's July, wasta is: (Check appropriate classification) APT oilfield waste which is non-hazardous by characteristic by product identification m-exempt non-hazardous waste defined above.
Red_Cedar_Gathering_Company_         according to the Resource Conservation and Recove         1988, regulatory determination, the above described        X       EXEMPT oilfield waste          NON-EXEMPT analysis of and that nothing has been added to the exempt or no         For NON-EXEMPT waste only the following documents	ry Act (RCRA) and Environmental Protection Agency's July, wasta is: (Check appropriate also ification) APT oilfield waste which is non-hazardous by characteristic by product identification m-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):

Name (Original Signature): ames AMasjo
Title: Manager, Safety and Envirnment
Date: October 29, 1997

## **CERTIFICATE FROM OUT OF STATE AGENCY**

## AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE

## FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the enclosed information concerning the oilfield waste material from location Bondad Compressor Station, LaPlata Cty and agree that by its description it is non-hazardous and therefore exempt from regulation by the Resource Conservation and Recovery Act (RCRA) and my jurisdictions rules, regulation or statute.

 $\underline{x}$  The material is exempt from regulation because it is classified as nonhazardous oilfield waste by definition.

The material is exempt from regulation by characteristic analyses.

The material is exempt from regulation by product identification.

## **THEREFORE:**

As a representative for <u>Bureau of Indian Affairs</u> I have no objections to the material being removed to New Mexico.

NAME:	Danny	н. в	reuni	nger		TITLE:	Superinte	ndent
SIGNATUR		Att	u f	flin	<u>y</u>	DATE:	1/16/5	7
AGENCY:	Bureau	of	Indian	n Affairs	<b>y</b> Sou	thern Ute	Agency	
ADDRESS:								 
PHONE:	(970)	563-	-4514					
				<u></u>				

ŕ					
District II       (505) 333-0101         P.O. Box 1940       Hobbs, NM 88241-1980         District II       (505) 748-1283         811 S. First       Artesia, NM 88210         District III       (505) 334-6178         1000 Rio Brazos Road       Aztee, NM 87410         District IV_(505) 827-7131		rals and Natu Oil Conserva		Department	Form C-: Submit Ori Plus 1 Cop to appropri District Off
	REQUEST FO	R APPROVAL	TO ACCEPT SC		
B. All requests	ceived: Yes lity Destination heatal Land G Operator <u>3100 Aztec</u> al (Street Addre <u>#112 Y S WD</u> for approval to accept oil r job. for approval to accept noil s non-hazardous and the ved.	NO By: ACM San Juan (oun Ss or ULSTR) Rio Arriba field exempt wastes was e Generator's certificat	ill be accompanied by a to be accompanied by necession of origin. No waste c	4. Generator Ballington <u>PMM Gas</u> 5. Originating 5. Originating 5. Originating 6. Transporter <u>Riley</u> Truck 8. State <u>NM</u> certificate of waste from the essary chemical analyses classified as hazardous by nose consigned f	<del>عيد خدرد</del> ج Site #//۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/۲/
BRIEF DESCRIPTION OF Tan K Bottom S Estimated Volume SIGNATURE TYPE OR PRINT NAME		Known Volume (to	be entered by the operative operation of the operation of	cialist DATE	ED 3 DIV/- yd ³  5) 334-8894
(This space for State Use) PPROVED BY	mp B. Feerty	TITLE GCO	ocist logist	DATE DATE	5 C - 2 E - F

Generator Name and Address:	2. Destination Name:
Burlington Resources	Tierra Landfarm
3535 East 30 th Street	Aztec, NM 87410
Farmington NM 87401	
Originating Site (name):	Location of the Waste (Street address /or ULSTR):
San Juan 30-6 #112 Y SWD	San Juan 30-6 #112 Y SWD Unit A Section 26, T30N, R06W
Source and Description of Waste:	
Tank Bottoms	
Jeff Schoenbacher	representative for:
	····
Burlington Resources	do hereby certify that
according to the Resource Conservation and Rec 1988, regulatory determination, the above descri EXEMPT oilfield waste	do hereby certify that covery Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Rec 1988, regulatory determination, the above descri EXEMPT oilfield waste	do hereby certify that covery Act (RCRA) and Environmental Protection Agency's July, libed waste is: ^(Check the appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification.
according to the Resource Conservation and Rec 1988, regulatory determination, the above descri EXEMPT oilfield waste NON- analys	do hereby certify that covery Act (RCRA) and Environmental Protection Agency's July, ibed waste is: ( ^{Check the appropriate classification} ) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification. non-exempt non-hazardous waste defined above.
according to the Resource Conservation and Rec 1988, regulatory determination, the above descri EXEMPT oilfield waste INON- analys and that nothing has been added to the exempt or t	do hereby certify that, covery Act (RCRA) and Environmental Protection Agency's July, ibed waste is: (Check the appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification. non-exempt non-hazardous waste defined above.

P.O. Box 1940 New Mexico	Form C-1
Hobbs, NM 88241-1980 Energy Minerals and Natural Resources	Department
District II (505) 748-1283 811 S. First Oil Conservation Division	
Artesia, NM 88210 District III (505) 334-6178 Santa Fe, New Mexico 87505	Submit Ori
1000 Rio Brazos Road Aztec, NM 87410 (505) 827-7131	Plus 1 Cop: to appropri
<u>District IV</u> (505) 827-7131	District Off
REQUEST FOR APPROVAL TO ACCEPT SC	DLID WASTE
1. RCRA Exempt: X Non-Exempt: DATE: 3-3/-98	4. Generator
Verbal Approval Received: (Yes) No By: 0. Foust	PNM
2. Management Facility Destination	5. Originating Site
Tierra Environmental Landfarm	Turner #1A
3. Address of Facility Operator	6. Transporter
Had C.R. 3100 Aztrc Nm 87410 Saw Juan County       7. Location of Material (Street Address or ULSTR)	Philip Services
7. Location of Waterial (Street Address or ULSTR)	8. State
5-24, T-3IN, R-IIW, M San Juan County	New Mexico
9. <u>Check One</u>	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate per job.	certificate of waste from the Generator; one
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste c will be approved.</li> </ul>	essary chemical analyses to prove lassified as hazardous by listing or testing
All transporters must certify that the wastes delivered are only th	ose consigned for transport.
BRIEF DESCRIPTION OF THE MATERIAL:	
Earthen pit remediation.	· · · · · · · · · · · · · · · · · · ·
DECEIN	ED
APR - 3 19	m "DECEIVED
Estimated Volume/000yd ³ Known Volume (to be entered by the opera	tor at end of haul):yd ³
SIGNATURE ANNAL TITLE ENVICODMENTAL SOC	ncialist DATE 3-30-98
	IONE NO
(This space for State Use)	11/5102
APPROVED BY Demy getand TITLE (FCO/0915)	DATE <u>7/3/7</u> /
APPROVED BY the Busch TITLE U	DATE

1. Generator Name and Address:	2. Destination Name:
prim Gas Services	Tierra Environmental Co. Inc.
603 W Elm	420 C.R. 3100
Farmington, N.M.	Aztec, Sun Juan County, NM 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Three # 1A	
Sec. 24, 3/N, 11W, m	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Earthon pit remediation	
·	
1, <u>GAry Cook</u> (Print Name)	representative for:
<u>אשוע איז איז איז איז איז איז איז איז איז איז</u>	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	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 MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): Other (description):
Name (Original Signature): Jany Cont Title: <u>Environmental</u> Con. dineta- Date: 3/30/98	

ł				
District II(505) 373-0101F.O. Box 1940For StatisticsHobbs, NM 88241-1980Energy Minerals and Natural Resources IDistrict II(505) 748-1283811 S. FirstOil Conservation Division	Crigmated 4/18/95			
Artesia, NM 882102040 South Pacheco Street	Submit Origina Plus 1 Copy			
1000 Rio Brazos Road         (505) 827-7131           Aztec, NM 87410         (505) 827-7131	to appropriate District Office			
<u>District IV</u> (505) 827-7131				
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 96007			
1. RCRA Exempt: X Non-Exempt: DATE: 3-12-98	4. Generator			
Verbal Approval Received: Yes X No By: A-Foust	PNM SERVICES			
2. Management Facility Destination	5. Originating Site			
3. Address of Facility Operator	MANGUM #1			
4 ZO CR 3100 Aztec NM 87410	6. Transporter			
7. Location of Material (Street Address or ULSTR)	8. State			
5-29 T-Z9N RIIW	NM			
9. <u>Check One</u>	· · · · · · · · · · · · · · · · · · ·			
All requests for approval to accept oilfield exempt wastes will be accompanied by a c certificate per job.	ertificate of waste from the Generator; one			
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accomanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.</li> </ul>				
All transporters must certify that the wastes delivered are only the	ose consigned for transport.			
BRIEF DESCRIPTION OF THE MATERIAL:	From Dehy			
Deip pit				
	· · ·			
Estimated Volumeyd ³ Known Volume (to be entered by the operat				
SIGNATURE BOG WILL: TITLE Environmental SP	ecualist DATE 3-12-98			
	ONE NO. (505) 334-8894			
(This space for State Use)				
APPROVED BY Wany B: Point TITLE Geologist	DATE 4/10/98			
APPROVED BY John Palimon TITLE Field Rep IT	DATE 4-10-98			

·	•
1. Generator Name and Address:	2. Destination Name:
PNM Gasservices	Tierra Environmental CO., Inc.
603 w. 21m	420 County Road 3100
Farmington, Nm 87401	Aztrc, NM 87410 Saw Tuan County Location of the Waste (Street address &/or ULSTR):
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Mangum #1	5-29, T-29N, R-11W
	San Juan County, NM.
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Contaminated Soils from dehy. dr	ippi+
	. ,
1 UAY Look	representative for:
1, GAYY Copk (Print Name) PNM Gar Ser	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July,
	<b>IPT</b> 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 docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature): May Cork Title: <u>Environmentel</u> Cordinata Date: <u>3/1, 198</u>	

Hobbs, NM         88241-1980         Energy Minerals and Oil Coll           District II         (505) 748-1283         Oil Coll           811 S. First         2040 S           Artesia, NM         88210         2040 S           District III         (505) 334-6178         Santa F           1000 Rio Brazos Road         Santa F	New Mexico I Natural Resources nservation Division South Pacheco Street e, New Mexico 87505 (505) 827-7131	Department Submit Origi Plus 1 Copy to appropriat District Offic
REQUEST FOR APPR	OVAL TO ACCEPT SO	DLID WASTE 98019
1. RCRA Exempt: X Non-Exempt: I	DATE: 3-10-98	4. Generator
Verbal Approval Received: Yes X No 2. Management Facility Destination <i>IIERRA Environmenter</i> , Co Fin 3. Address of Facility Operator	IC CANDFARM	RED CEDAR CIATHER 5. Originating Site Bonana Com. STATION 6. Transporter
420 CR 3100 Azter N'm 7. Location of Material (Street Address or UL	• —	8. State
<ul> <li>S-24 T-33N R-10</li> <li>9. <u>Check One</u></li> <li>All requests for approval to accept oilfield exemp certificate per job.</li> <li>B. All requests for approval to accept non-exempt w the material is non-hazardous and the Generator will be approved.</li> </ul>	t wastes will be accompanied by a astes must be accomanied by nec	essary chemical analyses to prove
All transporters must certify that the waster BRIEF DESCRIPTION OF THE MATERIAL:	s delivered are only th	nose consigned for transport.
B C Billion De	ARATION UNIT	From
OIL CON. DIV. DIST. 3		
Estimated Volume <u>10</u> yd ³ Known Vo	for legibility lume (to be entered by the operation	ator at end of haul):yd ³
		SPECIALIS DATE 3-10-98
TYPE OR PRINT NAME BLANNE William	- <u>(</u> TELEPI	HONE NO

(This space for State Use)	e de la companya de l
PPROVED BY Denny S. Part TITLE Geologist	DATE 4/10/98
APPROVED BY John Palineon TITLE Field Rep IT	DATE 4-10-98

1. Generator Name and Address:	2. Destination Name:
Red Cedar Gathering Company	
26266 Hwy. 160	·
Durango, CO 81301	TIERRA ENVIRONMENTAL CO TUCILANSFARMS
3. Originating Site (name):	Location of the Weste (Street address &/or ULSTR):
Bonded Field Compressor Station	, LaPlata County CO
Sec 24, 33 N 10 W	
	•
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Contaminated Soil due to spill (Soil Discolored by Glycol and	from Dehydration Equipment oil)

I, James H. Mayo

(Print Name) <u>Red Cedar Gathering Company</u> according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate eleminication)

X EXEMPT oiffield waste

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

representative for:

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 Weste Analysis

: J

Chain of Custody

· · · · · · · · · · · · · · · · · · ·	1
· · ·	11 then
Name (Original Signature):	ames AMayo

Title: Manager, Safety and Environment

Date: October 29, 1997

## **CERTIFICATE FROM OUT OF STATE AGENCY**

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## AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE

## FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the enclosed information concerning the oilfield waste material from location Bondad Compressor Station, LaPlata Cty. and agree that by its description it is non-hazardous and therefore exempt from regulation by the Resource Conservation and Recovery Act (RCRA) and my jurisdictions rules, regulation or statute.

 $\underline{x}$  The material is exempt from regulation because it is classified as nonhazardous oilfield waste by definition.

The material is exempt from regulation by characteristic analyses.

The material is exempt from regulation by product identification.

## **THEREFORE:**

As a representative for <u>Bureau of Indian Affairs</u> I have no objections to the material being removed to New Mexico.

NAME:	Danny	H. Breuninger		TITLE: _	Superintende	ent
SIGNATUR	£:	Star H flui	ing	DATE:	1/16/58	
AGENCY:	Bureau	of Indian Affa	/ irs Sout	hern Ute	Agency	
ADDRESS:	P.0.	Box 315, Ignac	io, CO	81137		
PHONE:	(970)	563-4514				

	· .
Disprict II(505) 748-1283New MexicoDisprict II(505) 748-1283Energy Minerals and Natural ResourcesDisprict II(505) 748-1283Oil Conservation DivisionAttesia, NM 882102040 South Pacheco StreetDisprict III(505) 334-6178Santa Fe, New Mexico 875051000 Rio Brazos Road(505) 827-7131	Department Department MAR 2 7 1997 Environmental Bureau Oil Conservation Division
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 9802 8 9600-
1. RCRA Exempt: Non-Exempt: X DATE: 3-18-98	4. Generator
Verbal Approval Received: Yes No By:	SUNCO / BIGA
2. Management Facility Destination TIERFA Environmenter LANAFARM FACILITY	5. Originating Site 5451 Huy 64
3. Address of Facility Operator	6. Transporter
420 CR 3100 Arte Nom 87410	SUNCO
7. Location of Material (Street Address or ULSTR) 5651 Huy 64 Fremington NM	8. State
5651 Muy 69 Minington With	NM
All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste d will be approved. All transporters must certify that the wastes delivered are only th	assified as hazardous by listing or testing
BRIEF-DESCRIPTION OF THE MATERIAL: Soils was Han	into sur ??
DECEIVED At OILField A MAR 2 4 1998	into sump in sing Acility
OIL CON. DIV. DIST. 3	554
Estimated Volumeyd ³ Known Volume (to be entered by the operation)	or at end of haul):yd ³
SIGNATURE Ba ulla TITLE Environmental	SPECIALISIDATE 3-18-98
TYPE OR PRINT NAME BLAINE WILLIAMS TELEPH	ONE NO:(505) 334-8894
(This space for State Use) APPROVED BY DEMY B. Down TITLE Geologist APPROVED BY Martym J. Kilg TITLE Env. Geologist	DATE <u>3/24/98</u> DATE <u>3/27/98</u>

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•	· · ·
Disprint II (505) 748-1283 Disprint II (505) 748-1283 Disprint II (505) 748-1283	• .
Bit 1 S. First         Off Conservation Division           Artesia, NM 88210         2040 South Pacheco Street           District III (505) 334-6178         Santa Fe, New Mexico 87505           1000 Rio Drazos Road         (505) 827-7131           Aztee, NM 87410         (505) 827-7131	MAR 2 7 1997 Environmental Bureau Oli Conservation Division
REQUEST FOR APPROVAL TO ACCEPT SC	LID WASTE 9802 8 9600
1. RCRA Exempt: Non-Exempt: X DATE: 3-18-98	4. Generator
Verbal Approval Received: Yes No By:	SUNCO / BIGA
2. Management Facility Destination TIEREA Environmenter LANDFARM FACILITY	5. Originating Site 5451 Hwy 64
3. Address of Facility Operator	6. Transporter
420 CR 3100 Avec NM 87410	SUNCO
7. Location of Material (Street Address or ULSTR)	8. State
5651 they 64 FARMINGTON NM	NM
will be approved. All transporters must certify that the wastes delivered are only th	ose consigned for transport.
BRIEF-DESCRIPTION OF THE MATERIAL: Soils WASHERS	into sumo in
DECENVED At OLLAND A	<i>े</i>
OIL CON. DIV. DIN. 3	9 + 5 5
Estimated Volumeyd ³ Known Volume (to be entered by the operation)	tor at end of haul):yd ³
SIGNATURE Re ulle TITLE Environmental	SAETCIALIS, DATE 3-LE-98
	ONE NO(505) 334-8894
(This space for State Use)	
APPROVED BY Martym 2: Kily TITLE Env. Geologist	DATE <u>3/24/98</u> DATE <u>3/27/98</u>

New MexicoP.G. Box 1940New MexicoHobbs, I.H. 2021Energy Minerals and Natural ResourcesDistrict II (505) 748-1283Oil Conservation Division811 S. First2040 South Pacheco StreetArtesia, NM 882102040 South Pacheco StreetDistrict III (505) 334-6178Santa Fe, New Mexico 875051000 Rio Brazos Road(505) 827-7131District IV (505) 827-7131	Department Submit Or Plus 1 Cop to appropr District Of
REQUEST FOR APPROVAL TO ACCEPT SC	LID WASTE 98028 9600
1. RCRA Exempt: Non-Exempt: X DATE: 3-18-98	4. Generator
Verbal Approval Received: Yes No By:	SUNCO   BIGA
2. Management Facility Destination TIERER Environmenter LAMAFARM FACILITY	5. Originating Site 5451 Huy 64
3. Address of Facility Operator	6. Transporter
420 CR 3100 Avec NM 87410	SUNCO
7. Location of Material (Street Address or ULSTR)	8. State
5651 they 64 FARMINGTON NM	NM
9. <u>Check One</u>	······································
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a contribution of the period.	certificate of waste from the Generator; one
All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste c will be approved. All transporters must certify that the wastes delivered are only th	lassified as hazardous by listing or testing
BRIEF-DESCRIPTION OF THE MATERIAL:	ىلى <u>مەركى كەركى بىلىكى بىلىكى بىكى مەركى بىلىكى بىلىكى بىلىكى بىلىكى بىلىكى بىلىكى بىلىكى بىلىكى بىلىكى بىلىك</u>
DECEIVED At OILFIELD F	Acility
OIL COM. DIV. DIST. 3	
Estimated Volumeyd ³ Known Volume (to be entered by the operation	tor at end of haul):yd ³
SIGNATURE Re will TITLE Environmental	SPECIALISIDATE 3-LE-98
	IONE NO
(This space for State Use)	
APPROVED BY D'emp &. Tout TITLE Geol og 15	2/211/88
	DATE <u>3/24/48</u>
APPROVED BY TITLE	DATE

. . . . . . . . . . .

1. Generator (Name): Address:	3. Location (Street Address &/or ULSTR):
Bic A Well SERVICE Sunco TRUCKING Company	5651 US HW464
	FARMINGTON, NM
Junco TRUCKING COMPANY	
2. Originating Site (Name):	.4. Destination Name:
YARD SUMP	SUNCO WHETE MANAGEMENT
	Fitcility
5. Source and Description of Waste WASH WATER FROM	CAR WASH Sumps ON SITE
I. HAL STONE	representative for:
Bis A Well SERVICE & SUNCO	TRUCKING Company do hereby certify
	Lecovery Act (RCRA) and Environmental Protection
Agency's July 1988 regulatory determination, th classification)	e above described waste is: (Check appropriate
EXEMPT oilfield waste $\chi$ NO	N-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by production identification

For Non-exempt waste only the following documentation is attached (check appropriate items):

MSDS Information
 X RCRA TCLP Analysis
 X Chain of Custody
 Other (Description)

Name (Signature): Printed Name: TONE TRUCKING DIVISION NAGER GENER Title: 3 Date: 6

Attach list of originating sites as appropriate.

March 6, 1998

ta Natioa

2506 W. Main Street Farmington, New Mexico 87401

125

Michael Talovich Sunco Trucking 708 S. Tucker Farmington, NM 87401

Mr. Talovich:

Enclosed, please find the reports for the samples received by our laboratory for analysis on February 20, 1997.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

We appreciate your business!

Sincere Mann Sharon Williams

Organics Lab Supervisor

Enclosures xc: File

### **CASE NARRATIVE**

Client: SUNCO TRUCKING Project: 4 Corner Drilling Received on: 02/24/98 Set ID: 0598H00826 # samples: 2

Suites: 8260 Standard

Samples were received for analysis at Inter-Mountain Laboratories (IML), Gillette, Wyoming. Enclosed are the results of these analyses.

The listed compounds are from EPA method 8010 which was requested by our Farmington laboratory. The analysis referenced is EPA method 8260.

For the 8260 water analysis: Additional compounds were detected in the water sample and are listed below. For an additional charge IML will provide a quantitative number for each compound:

Detected compounds: Toluene, Ethylbenzene, (m,p)-xylene, o-xylene, 2-Chlorotoluene, 1,2,4-Trimethylbenzene, Naphthalene, and 1,2,3-Trichlorobenzene.

For the 8260 soil analysis: Additional compounds were detected in the soil sample and are listed below. For an additional charge IML will provide a quanitative number for each compound:

Detected compounds: Toluene, Ethylbenzene, (m,p)-xylene, 1,3,5-Trimethylbenzene, and 1,2,4-Trimethylbenzene.

Limits of detection for each instrument/analysis are determined by sample matrix effects, instrument performance under standard conditions, and dilution requirements to maintain chromatography output within calibration ranges. Quantitations have been calculated on an as received basis.

Quality Control reports have been included for your information and use. These reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please contact me at (800) 828-1095.

	Inter- Mountain Laboratorios, Inc.		CHAIN OF CUSTODY RECORD							1. 1. 1.						
•	Client/Project Name				-	ect Location						VOFO				
•	SINCO		•	r	140	CORNER	DRILLIN	ic	/			.YSES	/ PAh	AMETER	5	
•	Sampler: (Signature) Murhad	Talo		Chai	n of Cu:	stody Tape	No.		ers	L'ar				Rem	iarks	
	Sample No./ Identification	Date	Time	Lab Nur	mber		Matrix		No. of Containers	Digne Land						
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	Four Corver Dulling	2-20	2:000~			Sludg	€		4							к.
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		_		nter-Mo	ounta	ain Lab	oratorie	es, Inc.			9 					
	1633 Terra Avenue Sheridan, Wyoming 82 Telephone (307) 672-8	801 Gill	01 Phillips Circ ette, Wyoming ephone (307)	g 82718	Farmi	West Main S ngton, NM 8 hone (505) 3	7401	1160 Rese Bozeman, Telephone	Montar	na 59718	B Co	olleg∈ St		30 X 77845 76-8945	51	940
	L					<u> </u>										

2506 W. Main Street Farmington, New Mexico 2740:

# VOLATILE AROMATIC HYDROCARBONS

## Sunco Trucking

Project ID: Sample ID: Lab ID: Sample Matrix: Condition: Four Corner Drilling Four Corner Drilling 0398G00695 Soil Cool/Intact

# Report Date:03/04/98Date Sampled:02/20/98Time Sampled:02/20/98Date Received:02/20/98Date Extracted:02/25/98Date Analyzed:02/26/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	9.4
Toluene	ND	9.4
Ethylbenzene	ND	9.4
m,p-Xylenes	12.4	9.4
o-Xylene	ND	9.4

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	105%	70%-130%
Reference:		and Trap; Method 8020, Arom Ig Solid Wastes, SW-846, Un eptember 1986.	<b>e</b>

Comments:

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Review

#### 2506 W. Main Street Farmington, New Mexico 87401

## TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

na hel ann ghle thào sha bha bhail na bhleann na Áirte a na machair an bhliaic bhliaic

Client:Sunco TruckingProject:Four Corner DrillingSample ID:Four Corner DrillingLaboratory ID:0398G00695Sample Matrix:Sludge

Date Reported:03/04/98Date Sampled:02/20/98Date Received:02/20/98Date Analyzed:02/29/98

Result		

		*		
Arsenic	0.013	0.005	5	mg/L
Barium	2.75	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	0.12	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L 、
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References:

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By

Reviewed

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		2506 W. Main Street
		Farmington, New Mexico ST401
Client:	Sunco Trucking	
Project:	(Four Corner Drilling)	
Sample ID:	Four Corner Drilling	Date Received: 02/20/98
Lab ID:	0398G00695	Date Reported: 03/04/98
Matrix:	Sludge	Date Sampled: 02/20/98
Condition:	Cool/Intact	Time Sampled: 1400

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	Analytical						Ana	lysis	
Parameter	Result	Units		Units	PQL	Method	Date	Time	Init.
General Parameters								•	· · ,
РН	7.6	s.u.			0.1	EPA 150.1	02/20/98	1645	ВJ
Electrical Conductivity	2,940	µmhos/cm			10	EPA 120.1	02/20/98	1645	ВJ
Solids - Total Dissolved	2,150	mg/L			10	EPA 160.1	02/20/98	1500	ВJ
Solids - Total Dissolved (Calc)	2,090	mg/L			10	Calculation	03/04/98	1440	JG
Solids-Total	300,000	mg/L			10	EPA 160.3	02/26/98	0933	ВJ
Alkalinity (CaCO3)	570	mg/L			1	EPA 310.1	02/26/98	0815	AP
Hardness (CaCO3)	163	mg/L			1	Calculation	03/04/98	1440	JG
Major Anions									
Bicarbonate (HCO3)	695	mg/L	11.4	meq/L	1	EPA 310.1	02/26/98	0815	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	02/26/98	0915	AF
Hydroxide (OH)	<1	mg/L	<Ö.01	meq/L	1	EPA 310.1	02/26/98	0815	ΑP
Chloride	905	mg/L	25.5	meq/L	1	EPA 300.0	02/20/98	1545	. AP
Nitrogen - Nitrate/Nitrit	0.19	mg/L	0.01	meq/L	0.05	EPA 353.2	02/27/98	1000	SH
Sulfate	8	mg/L	0.16	meq/L	5	EPA 300.0	02/20/98	1545	AP
Major Cations									
Calcium	48.8	mg/L	2.44	meq/L	0.2	EPA 200.7	02/25/98	1030	ST
Magnesium	9.9	mg/L	0.81	meq/L	0.2	EFA 200.7	03/03/98	1200	ST
Potassium	4.6	mg/L	0.12	meq/L	0.2	EPA 200.7	03/03/98	1200	ST
Sodium	772	mg/L	33.6	meq/L	0.2	EPA 200.7	03/03/98	1200	ST
Cation / Anion Balance QC Informa	ition								
Anion Sum			37.1	meq/L	0.01	Calculation	03/04/98	1440	JG
Cation Sum			37.0	meq/L	0.01	Calculation	03/04/98	1440	JG
Cation/Anion Balance			0.20	%	0.01	Calculation	03/04/98	1.440	JG

 Reference:
 EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised

 March, 1983.
 EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/400 ugust, 1983.

Reviewed By:

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1701 Phillips Circle Gillette, Wyoming 82718

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## EPA METHOD 0200 VOLATILE ORGANIC COMPOUNDS

<u> 1999 (1997) (1997) (1997) (1997) (1997)</u> (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997)

Parameter		Result	PQL	Units
		·	Date Analyzed:	03/02/98
Matrix:	Sludge		Date Extracted:	03/02/98
Lab ID:	B980827	03-0695	Date Received:	02/24/98
Project ID:	4 Corner Drilling		Date Sampled:	0.2/20/98
Sample ID:	Four Corner Drilling		Date Reported:	03/04/98
Client:	SUNCO TRUCKING		Dete Devente de	0010110

1,1,1-Trichloroethane	ND	0.2	mg/kg
1,1,2,2-Tetrachloroethane	ND	0.2	mg/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.2	mg/kg
1,1,2-Trichloroethane	ND	0.2	mg/kg
1,1-Dichloroethane	ND	0.2	· mg/kg
1,1-Dichloroethene	ND	0.2	mg/kg
1,2-Dibromoethane (EDB)	ND	0.2	mg/kg
1,2-Dichloroethane	ND	0.2	mg/kg
1,2-Dichloropropane	ND	0.2	mg/kg
Bromodichloromethane	ND	0.2	mg/kg
Bromoform	ND	0.2	mg/kg
Bromomethane	ND .	0.2	mg/kg
Carbon Tetrachloride	ND	0.2	mg/kg
Chlorobenzene	ND	0.2	mg/kg
Chlornethane	ND	0.2	mg/kg
Chloroform	ND	0.2	mg/kg
Chloromethane	ND	0.2	<ul> <li>mg/kg</li> </ul>
cis-1,3-Dichloropropene	ND	0.2	mg/kg
Dibromochloromethane	ND	0.2	· mg/kg
Methylene chloride	ND	1.0	mg/kg
Tetrachloroethene (PCE)	ND	0.2	· mg/kg
trans-1,2-Dichloroethene	ND	0.2	mg/kg
trans-1,3-Dichloropropene	ND	1.0	mg/kg
Trichloroethene (TCE)	ND	0.2	mg/kg
Vinyl Chloride	ND	0.2	mg/kg

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.

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#### 1701 Phillips Circle Gillette, Wyoming 82718

## LAB QA/QC EPA METHOD 8260 BLANK SPIKE

Date Analyzed:	03/02/98	
Lab ID:	BSS98060	BS1
Matrix:	Soil	
Date Extracted:	03/02/98	

Parameter	Spike Added (mg/kg)	Sample Result (mg/kg)	Spike Result (mg/kg)	BS Recovery %	QC Limits Rec.
Benzene	16.2	0	20.2	125 *	<b>71</b> -120
Chlorobenzene	16.2	0	13.7	85	76 -127
Toluene	16.2	0	13.3	82	71 -127
Trichloroethene (TCE)	16.2	. 0	15.6	96	7.5 -130
QUALITY CONTROL - Surrogate Recover	y		%		<b>QC Lim</b> its
Bromofluorobenzene			103		74 -121
1,2-Dichloroethane-d4			98		70 -121
Toluene-d8			97		81 -117

**Note:** Spike Recoveries are calculated using zero for Sample result if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 1 out of 4 outside QC limits.

## LAB QA/QC EPA METHOD 8260 METHOD BLANK

Date Analyzed:03/02/98Lab ID:MBS98060Matrix:SoilDate Extracted:03/02/98

Parameter	Result	PQL	Units
QUALITY CONTROL - Surrogate Recovery	%	QC Limits	
1,2-Dichloroethane-d4	90	70 - 121	
Bromofluorobenzene	111	74 - 121	
Toluene-d8	100	81 - 117	

ND - Not Detected at Practical Quantitation Level (PQL)

#### 1701 Phillips Circle Gillette, Wyoming 82718

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## LAB QA/QC **EPA METHOD 8260** METHOD BLANK

Date Analyzed:	03/02/98				•	
Lab ID:	MBS98060		•			
Matrix:	Soil					
Date Extracted:	03/02/98				• .	

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Parameter	Result	PQL	Units	
L		· · ·	· · · · · · · · · · · · · · · · · · ·	
1,1,1-Trichloroethane	ND	0.2	mg/kg	
1,1,2,2-Tetrachloroethane	ND	0.2	mg/kg	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.2	mg/kg	
1,1,2-Trichloroethane	ND	0.2	mg/kg	
1,1-Dichloroethane	ND	0.2	mg/kg	
1,1-Dichloroethene	ND	0.2	mg/kg	
1,2-Dibromoethane (EDB)	ND	0.2	mg/kg	
1,2-Dichloroethane	ND	0.2	mg/kg	
1,2-Dichloropropane	ND	0.2	mg/kg	
Bromodichloromethane	ND	0.2	mg/kg	
Bromoform	ND	0.2	mg/kg	
Bromomethane	ND	0.2	_mg/kg	
Carbon Tetrachloride	ND	0.2	_ mg/kg	
Chlorobenzene	ND	0.2	mg/kg	
Chloroethane	ND	0.2	mg/kg	
Chloroform	ND	0.2	mg/kg	
Chloromethane	ND	0.2	mg/kg	
cis-1,3-Dichloropropene	ND	0.2	mg/kg	
Dibromochloromethane	ND	0.2	mg/kg	
Methylene chloride	ND	1.0	mg/kg	
Tetrachloroethene (PCE)	ND	0.2	mg/kg	
trans-1,2-Dichloroethene	ND	0.2	mg/kg	
trans-1,3-Dichloropropene	ND	1.0	mg/kg	
Trichloroethene (TCE)	ND	0.2	mg/kg	
Vinyl Chloride	ND	0.2	mg/kg	

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Analyst この.

1701 Phillips Circle Gillette, Wyoming 82718

1701 Phillips Circle Gillette, Wyoming 82718

## EPA METHOD 8260 VOLATILE ORGANIC COMPOUNDS

Client: Sample ID: Project ID: Lab ID: Matrix:	SUNCO TRUCKING Four Corner Drilling 4 Corner Drilling B980827 Sludge	03-0695	Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	03/04/98 02/20/98 02/24/98 03/02/98 03/02/98	
Parameter	· · · · · · · · · · · · · · · · · · ·	Result	PQL	Units	
QUALITY CONTROL - Surrogate Recovery		ry %	QC Limits		
1,2-Dichloroethane-d4		87	70 - 121		
Bromofluorobenzene		105	74 - 121		
Toluene-d8		100	81 - 1	17	

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.



2506 W. Main Street Farmington, New Mexico 87401

## Quality Control / Quality Assurance Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client: Project: Sample Matrix: Sunco Trucking Four Corners Drilling Water/Sludge Date Reported:03/Date Analyzed:02/Date Received:02/

03/02/98 02/29/98 02/20/98

Spike Analysis							
Spike Sample Spike							
	Result	Result	Added	Percent			
Parameter	(mg/L)	(mg/L)	(mg/L)	Recovery			
Arsenic	0.024	<0.005	0.025	96%			
Barium	1.02	0.13	1.00	89%			
Cadmium	0.750	<0.004	1.000	75%*			
Chromium	0.82	<0.01	1.00	82%*			
Lead	0.64	<0.05	1.00	64%*			
Mercury	0.006	<0.001	0.005	110%			
Selenium	0.022	<0.005	0.025	88%			
Silver	0.05	<0.01	0.05	104%			

#### Method Blank Analysis

Parameter	Result	Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0 005	mg/Ĺ
Silver	ND	0.01	mg/L

#### **References:**

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

*Spike recovery failed to meet established QC limits due to matrix interferences.

Reported by

Reviewed by

2506 W. Main Street Farmington, New Mexico 87401

# **Quality Control / Quality Assurance**

**Known Analysis** 

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client: Project: Sample Matrix:

Inter Mountain Laboratories, I.

Sunco Trucking Four Corners Drilling Water/Sludge Date Reported: Date Analyzed: Date Received:

03/04/98 02/29/98 02/20/98

Known Analysis					
Parameter	Found Result	Known Result	Percent Recovery	Units	
Arsenic	0.009	0.010	90%	mg/L	
Barium	0.97	1.00	97%	mg/L	
Cadmium	0.99	1.000	99%	mg/L	
Chromium	0.96	1.00	96%	mg/L	
Lead	0.99	1.00	99%	mg/L	
Mercury	0.004	0.004	100%	mg/L	
Selenium	0.010	0.010	100%	mg/L	
Silver	4.39	4.00	110%	mg/L	
<u> </u>			·		

**References:** 

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by_

Reviewed by

International Control of the second secon		
Index All 3000       Energy Minerals and Natural Resources Department         District II (96) 78-123       Conservation Division         Still 5, Fig.       Santa Fe, New Mexico 87505         Did 80 bases Road       Santa Fe, New Mexico 87505         Arters, NM 8700       Santa Fe, New Mexico 87505         Did 80 bases Road       Santa Fe, New Mexico 87505         Arter, NM 8700       Santa Fe, New Mexico 87505         District II (90) 97-7131       Based 1000         REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE       96007         1. RCRA Exempt: X Non-Exempt: DATE: 3-9-98       4. Generator         Verbal Approval Received: Yes X No       By E. Busch       MMAATMON OUL         2. Management Facility Destination       5. Originating Site       5. Originating Site         1. WE20 C2 3100       Actec NM 87410       Succo       7. Location of Material (Street Address or ULSTR)       8. State         5-34       T-2LN A-5W       NM.       9.       Succo       9.         8. Altrequest for approval to accept oilied exempt wastes must be accompanied by a certificate of waste from the Generator, one conflicted per po.       8. State         S. Alt requests for approval to accept oilied exempt wastes must be accompanied by a certificate of waste from the Generator, one conflicted per po.       8. Altrequests for approval to accept oiffield exempt wastes must be accompanied by acertificat		г. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Detect Of Conservation Division       2040 South Pacheco Street       Sikenit Origin         Detect II Street       2040 South Pacheco Street       Sikenit Origin         Detect II Street       Santa Fe, New Maxico Street       Sikenit Origin         Detect II Street       Santa Fe, New Maxico Street       Sikenit Origin         Detect IV (500) 34-078       Santa Fe, New Maxico Street       Sikenit Origin         Detect IV (500) 877-713       REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE       96007         1. RCRA Exempt:       X Non-Exempt:       DATE:       3-9-98       4. Generator         Verbal Approval Received:       Yes X No       By: E. Busch       MARATABAN OW         2. Management Facility Operator       5. Originating Site       Succells       Succells         1. BCRCK One       Sice Address of Facility Operator       6. Transporter       Succells         4. Calutorus-Mut.       Law/FAREM       Facility       Succells       Succells         7. Location of Material (Street Address or ULSTR)       8. State       State       Succells       Succells         6. All requests for approval to accept oilfield exempt wastes will be accompanied by a cetificate of waste from the Generator, one cetificate or approval to accept oilfield exempt wastes will be accompanied by a cetificate of waste from the Generator, one cetificate or approval to accept oilfield exempt wastes mult be accomp	LAN. DOX ENTO	
Diduct III (#69 334-672       Santa Fe, New Mexico 87505       Santa Fe, New Mexico 87505         DOB De Davis Boad       (505) 827-7131       District Converting of the second secon	District II (505) 748-1283 Oil Conservation Division	
1000 Rice Road Acts: NM 87410       (505) 827-7131       Batrick IV. (505) 827-7131         REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE       96007         1. RCRA Exempt: X Non-Exempt: DATE: 3-9-98       4. Generator       96007         2. Management Facility Destination       5. Originating Site       3. Generator         1. brocket Dividentiation       6. Transporter       5. Uracolla # #146         3. Address of Facility Operator       8. State       5. State         1. bocket Dividentiation of Material (Street Address or ULSTR)       8. State       NM.         9. Check One       Material (Street Address delivered are only those consigned for transport.         8. Alt requests for approval to accept oiffield exempt wastes will be accompanied by a cettificate or waste from the Generator. or entimetration analyses to prove the material is non-heardous and the Generators centification of orgin. No waste dasaded as hazardous by keing or testing will be approved.         Alt requests for approval to acc		
District IV: (985) 927-7133       REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE     96007       1. RCRA Exempt:     X Non-Exempt:     DATE:     3-9-98     4. Generator       Verbal Approval Received:     Yes X No     By: E. Busch     MIRATION OUL       2. Management Facility Destination     5. Originating Site     5. Originating Site       1. 150246     Environmenter Landfreem Fracility     5. Originating Site       1. 150247     Environmenter Landfreem Fracility     6. Transporter       420     C. 3100     Aztec     NM       9. Location of Material (Street Address or ULSTR)     8. State     5. 34     7-26 N       9. Check One     ØM requests for approval to accept outfield exempt wastes will be accompanied by a certificate of waste from the Generator, one extiticate per job.     8. Alternautous and the Generators certification of organ. No waste classified as heartboard to prove the methan of approval to accept outfield exempt wastes must be accompanied by a certificate of waste from the Generator, one extiticate per job.     8. Alternautous for approval to accept outfield exempt wastes must be accompanied by necessary chemical analyzes to prove end the generators certification of organ. No waste classified as heartboard by iteling or testing will be approved.       All transporters must certify that the wastes delivered are only those consigned for transport.       BRIEF DESCRIPTION OF THE MATERIAL:       NAR 2 4 1998       WAR 2 4 1998       WAR 2 4 1998	1000 Rio Brazos Road (EDE) 927 7131	· · · · · · · · · · · · · · · · · · ·
1. RCRA Exempt: X Non-Exempt: DATE: 3-9-98       4. Generator         Verbal Approval Received: Yes X No       By: E. Busch       MARATHON QUL         2. Management Facility Destination       5. Originating Site         1. rocan Envicenment Landfreem Fracility,       5. cransporter         3. Address of Facility Operator       6. Transporter         420       CE 3100       Artec NM 87410         7. Location of Material (Street Address or ULSTR)       8. State         5. 34       T-26N       R-5W         9. Check One       NM         9. Check One       NM         9. All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator, one cartificate per job.         8. All requests for approval to accept non-evempt wastes must be accompanied by a certificate of waste from the Generator, one cartificate per job.         8. All requests for approval to accept non-evempt wastes must be accompanied by a certificate of waste from the Generator, one cartificate of or ongin. No waste classified as hazardous by lising or testing will be approved.         All requests for approval to accept non-evempt wastes must be accompanied by a certificate of waste from the Generator, one cartificate per job.         All requests for approval to accept non-evempt wastes must be accompanied by a certificate of waste from the Generator, one cartificate per job.         All requests for approval to accept non-evempt w		District Office
Verbal Approval Received: Yes X No       By: E. Busch       MARATHON OUL         2. Management Facility Destination       5. Originating Site       5. Originating Site         1:5004       5. Originating Site       5. Originating Site         3. Address of Facility Operator       6. Transporter         420       CL       3100       Aztec       NM       8. Transporter         5. 34       T-ZLN       R-SW       8. State         5. 34       T-ZLN       R-SW       NM         9. Check One       0       All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator; one certificate of rapproval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator; one certificate of rapproval to accept non-overingt wastes will be accompanied by a certificate of waste from the Generator; one certificate of rapproval to accept non-overingt wastes will be accompanied by a certificate of waste from the Generator; one certificate per job.         8. Attrequests for approval to accept non-overingt wastes must be accompanied by acetificate of waste from the Generator; one certificate per job.         9. Other Cone       0         All transporters must certify that the wastes delivered are only those consigned for transport.         BRIEF DESCRIPTION OF THE MATERIAL:       TAWK Bufferms       FRom phoduced         MAR 2 4 1998       Wafter TAWK       Mark 2 4 1998	REQUEST FOR APPROVAL TO ACCEPT SC	<b>OLID WASTE</b> 96007
2. Management Facility Destination       5. Originating Site         1.62244       Environmental LANFARM FACILITY       5. Originating Site         3. Address of Facility Operator       6. Transporter         420       CR<3100	1. RCRA Exempt: X Non-Exempt: DATE: 3-9-98	4. Generator
1.652.0.4       Environmentaria       LAWFAREN       FACILAR       Signaturing Site         3. Address of Facility Operator       6. Transporter       SUMCO         420       C.B. 310.0       Address or ULSTR)       8. State         5. 34       T-26.N       R-5W       NM.         9. Check One       MM.       8. State       NM.         9. Check One       MM.       8. State       NM.         9. Check One       MM.       8. State       NM.         9. Check One       MM.       9. Check One       NM.         9. Check One       MM.       9. Check One       NM.         9. Check One       MM.       9. Check One       NM.         8. All requests for approval to accept onlifield exempt wastes must be accompanied by a certificate of waste from the Generator; one certificate per job.       8. All transporters must certify that the Generator's certification of orgin. No waste classified as hazardous by listing or testing will be approved.         All transporters must certify that the wastes delivered are only those consigned for transport.         BRIEF DESCRIPTION OF THE MATERIAL:       TAWK BuHemss FRom produced         MAR 2 4 1998       WATCK TAWK         OILL COMo DDVo       DDVo         DIST. 3       Extimated Volume         Extimated Volume       BLALL yet ³ <	Verbal Approval Received: Yes X No By: E. Busch	MARATHON OUL
<ul> <li>3. Address of Facility Operator <ul> <li><u>420</u> <u>CR</u> <u>3100</u> <u>Azfec</u> <u>NM</u> <u>87410</u></li> <li><u>5000</u></li> <li><u>6. Transporter</u> <u>5000</u></li> </ul> </li> <li>7. Location of Material (Street Address or ULSTR) <ul> <li><u>8. State</u></li> <li><u>8. State</u></li> <li><u>8. MM</u></li> </ul> </li> <li>9. <u>Check One</u> <ul> <li><u>9. Check One</u></li> <li><u>8. All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator; one certificate per job.</u></li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by a certificate of waste from the Generator; one deminical analyses to prove the material is non-hazardous and the Generator's certification of orgin. No waste classified as hazardous by listing or testing will be approved.</li> </ul> </li> <li>All transporters must certify that the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF THE MATERIAL: <ul> <li><b>TAWK</b> Bufferns</li> <li><b>FROM</b> produced</li> <li><b>WAR</b> 2 4 1999</li> <li><b>OIL</b> GOIND DDIVO</li> <li><b>DIVO</b></li> <li><b>DIVIT</b> 3</li> </ul> </li> <li>Estimated Volume <u>BOBL</u> yd³ Known Volume (to be entered by the operator at end of haul): <u>80 BBUS</u> yd³</li> <li>SIGNATURE <u>Seconths</u> 7DATE <u>3-9-98</u></li> <li>TYPE OR PRINT NAME <u>Show</u> <u>Withoms</u> TELEPHONE NO. <u>(505) 334-8894</u></li> </ul>		5. Originating Site
<ul> <li>3. Address of Facility Operator <ul> <li><u>420</u> <u>CR</u> <u>3100</u> <u>Azfec</u> <u>NM</u> <u>87410</u></li> <li><u>5000</u></li> <li><u>6. Transporter</u> <u>5000</u></li> </ul> </li> <li>7. Location of Material (Street Address or ULSTR) <ul> <li><u>8. State</u></li> <li><u>8. State</u></li> <li><u>8. MM</u></li> </ul> </li> <li>9. <u>Check One</u> <ul> <li><u>9. Check One</u></li> <li><u>8. All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator; one certificate per job.</u></li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by a certificate of waste from the Generator; one deminical analyses to prove the material is non-hazardous and the Generator's certification of orgin. No waste classified as hazardous by listing or testing will be approved.</li> </ul> </li> <li>All transporters must certify that the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF THE MATERIAL: <ul> <li><b>TAWK</b> Bufferns</li> <li><b>FROM</b> produced</li> <li><b>WAR</b> 2 4 1999</li> <li><b>OIL</b> GOIND DDIVO</li> <li><b>DIVO</b></li> <li><b>DIVIT</b> 3</li> </ul> </li> <li>Estimated Volume <u>BOBL</u> yd³ Known Volume (to be entered by the operator at end of haul): <u>80 BBUS</u> yd³</li> <li>SIGNATURE <u>Seconths</u> 7DATE <u>3-9-98</u></li> <li>TYPE OR PRINT NAME <u>Show</u> <u>Withoms</u> TELEPHONE NO. <u>(505) 334-8894</u></li> </ul>	TITREA Environmenter LANFARM FACILity	JICAPEILA #146
<ul> <li>7. Location of Material (Street Address or ULSTR)</li> <li>S. 34 T-26N R-SW</li> <li>9. Check One</li> <li>All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate 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 a certificate 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 analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.</li> <li>All transporters must certify that the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF THE MATERIAL:</li> <li>TAWK Buttems From produced water TAWK</li> <li>WAR 2 4 1999</li> <li>WAR 2 4 1999</li> <li>WARTER TAWK</li> <li>WATER TAWK</li> <li>Section DDVo DIMO</li> <li>DIM GOINo DDVo DIMO</li> <li>State TAWK Stream Strea</li></ul>	3. Address of Facility Operator	6. Transporter
S 34 T-26N R-5W NM 9 Check One C All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of waste from the Generator, one certificate per job. 8. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of orgin. No waste classified as hazardous by listing or testing will be approved. All transporters must certify that the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF THE MATERIAL: DECENVED NAR 2 4 1998 OUL GODIO DDIVO DIETL 3 Estimated Volume	420 CR 3100 Aztec NM 87410	SUNCO
9. Check One            Ø All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate 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 analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.             All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.             All requests for approval to accept non-exempt wastes certification of origin. No waste classified as hazardous by listing or testing will be approved.             All requests for approval to accept non-exempt wastes delivered are only those consigned for transport.             BRIEF DESCRIPTION OF THE MATERIAL:             DECEIVED         MAR 2 4 1998             MAR 2 4 1998             ØOLL CONDO DINTO             ØDLL SOLL yd ³ Estimated Volume	7. Location of Material (Street Address or ULSTR)	8. State
All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate 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 analyses to prove the material is non-nazardous and the Generator's certification of ongin. No waste classified as hazardous by listing or testing will be approved. All transporters must certify that the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF THE MATERIAL: TAW & Butterns Frem produced WAR 2 4 1998 OULL COMO DDVo DEVE S Estimated Volume	5-34 T-26N R-5W	NM
ectificate per job.         B. All requests for approval to accept non-exempt wastes must be accomanied by necessary chemical analyses to prove the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved.         All transporters must certify that the wastes delivered are only those consigned for transport.         BRIEF DESCRIPTION OF THE MATERIAL:         TAWK Bothems From produced         WAR 2 4 1998         OILL GOIND DDIVo         DIECT 3         Estimated Volume         BOLL GOIND DDIVo         SIGNATURE         Description         TITLE         Entrype or PRINT NAME	9. <u>Check One</u>	••••••••••••••••••••••••••••••••••••••
the material is non-hazardous and the Generator's certification of origin. No waste classified as hazardous by listing or testing will be approved. All transporters must certify that the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF THE MATERIAL: TAWK Bottems From produced WATER TAWK MAR 2 4 1998 OIL CONO DIVO DISTO 8 Estimated Volume <u>BOBL</u> yd ³ Known Volume (to be entered by the operator at end of haul): <u>BOBLS</u> yd ³ SIGNATURE <u>BLAINE</u> TITLE <u>Environmented</u> <u>Steamths</u> 7DATE <u>3-9-98</u> TYPE OR PRINT NAME <u>BLAINE</u> Williams TELEPHONE NO. (505) 334-8894	All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate per job.	certificate of waste from the Generator; one
BRIEF DESCRIPTION OF THE MATERIAL: TAWK Bothems From produced WATER TAWK MAR 2 4 1998 OILL GOIND DIVO DISTL 8 Estimated Volume <u>BOBK</u> yd ³ Known Volume (to be entered by the operator at end of haul): <u>BOBKS</u> yd ³ SIGNATURE <u>SOCIESTICS</u> TITLE <u>Environmented</u> <u>Speciathis</u> TDATE <u>3-9-98</u> TYPE OR PRINT NAME <u>BLAINE</u> WILLIAMS <u>TELEPHONE NO. (505) 334-8894</u>	the material is non-hazardous and the Generator's certification of origin. No waste d	essary chemical analyses to prove assified as hazardous by listing or testing
TAWK Bottems FRom produced WAR 2 4 1998 MAR 2 4 1998 ODL GONO DIVLO DISTLO 8 Estimated Volume <u>BOBL</u> vd ³ Known Volume (to be entered by the operator at end of haul): <u>BUBLS</u> vd ³ SIGNATURE <u>BOBL</u> vd ³ Known Volume (to be entered by the operator at end of haul): <u>BUBLS</u> vd ³ SIGNATURE <u>BOBL</u> vd ³ TITLE <u>Environmented</u> <u>Specifies</u> TDATE <u>3-9-98</u> TYPE OR PRINT NAME <u>BLAINE</u> Williams <u>TELEPHONE NO. (505) 334-8894</u>	All transporters must certify that the wastes delivered are only th	ose consigned for transport.
IN       MAR 2 4 1993       DINO         IN       IN R 2 4 1993       DINO         IN       IN       DINO         DINC       DINO       DINO         Estimated Volume       SO       BLL yd ³ Known Volume (to be entered by the operator at end of haul):       SO       BLL yd ³ SIGNATURE       So       BLL yd ³ TITLE         SIGNATURE       So       BLANC       TITLE       Steamental         SIGNATURE       BLANC       MULAMS       TELEPHONE NO.       (505) 334-8894		
IN       MAR 2 4 1993       DINO         IN       IN R 2 4 1993       DINO         IN       IN       DINO         DINC       DINO       DINO         Estimated Volume       SO       BLL yd ³ Known Volume (to be entered by the operator at end of haul):       SO       BLL yd ³ SIGNATURE       So       BLL yd ³ TITLE         SIGNATURE       So       BLANC       TITLE       Steamental         SIGNATURE       BLANC       MULAMS       TELEPHONE NO.       (505) 334-8894	TANK Bottems +	From produced
IN       MAR 2 4 1993       DINO         IN       IN R 2 4 1993       DINO         IN       IN       DINO         DINC       DINO       DINO         Estimated Volume       SO       BLL yd ³ Known Volume (to be entered by the operator at end of haul):       SO       BLL yd ³ SIGNATURE       So       BLL yd ³ TITLE         SIGNATURE       So       BLANC       TITLE       Steamental         SIGNATURE       BLANC       MULAMS       TELEPHONE NO.       (505) 334-8894	DECENVED	10000000
Estimated Volume <u>BOBL</u> yd ³ Known Volume (to be entered by the operator at end of haul): <u>BOBLS</u> yd ³ SIGNATURE <u>BLAINE</u> TITLE <u>Environmented</u> <u>Specifies</u> 7DATE <u>3-9-98</u> TYPE OR PRINT NAME <u>BLAINE</u> Williams TELEPHONE NO. (505) 334-8894		
Estimated Volume <u>BOBL</u> yd ³ Known Volume (to be entered by the operator at end of haul): <u>BOBLS</u> yd ³ SIGNATURE <u>BLAINE</u> TITLE <u>Environmented</u> <u>Specifies</u> 7DATE <u>3-9-98</u> TYPE OR PRINT NAME <u>BLAINE</u> Williams TELEPHONE NO. (505) 334-8894		
SIGNATURE <u>Blaine</u> TITLE <u>Environmentel</u> <u>Specifi</u> s TDATE <u>3-9-98</u> TYPE OR PRINT NAME <u>Blaine</u> Williams TELEPHONE NO. (505) 334-8894		X
TYPE OR PRINT NAME BLAINE Williams TELEPHONE NO. (505) 334-8894	Estimated Volume <u>80 Bbl.</u> yd ³ Known Volume (to be entered by the operation	tor at end of haul): <u>&amp; BBLS</u> yd ³
TYPE OR PRINT NAME BLAINE Williams TELEPHONE NO. (505) 334-8894	$\sim 100 - 100$	<pre>//</pre>
		· ·
(This space for State Use)	TYPE OR PRINT NAME DIANE Williams TELEPH	ONE NO. <u>(505) 334-8894</u>
APPROVED BY DEMY & Tant TITLE Geologist DATE 3/24/98	APPROVED BY Demy 2. Tand TITLE Geologist	DATE <u>3/24/98</u>
APPROVED BY <u>Same Parel</u> TITLE DATE	APPROVED BY <u>Envire Bused</u> TITLE	DATE

1. Commenter Name and Address	
1. Generator Name and Address:	2. Destination Name: Tierra Environental
Marathon Oil Co	Lievra chusromet.
P.O. BOX 1435	
Farmington, N.M. 82499	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Jicavilla 14E	
	5-34 T-26N R-5W
Attach list of originating sites as appropriate	
4. Source and Description of Waste	I A- + KZ-IP
Ticarilla 14E - Produce	ed water, interfactor K Bottoms
1, <u>Gary W. Donag ney</u>	representative for:
1. <u>Gary w. Donaghey</u> (Print Name) Marathon Dil Co	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	
	EMPT oilfield waste which is non-hazardous by characteristic
analysis	or by product identification
and that nothing has been added to the exempt or	non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following doc	umentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	· · · · · · · · · · · · · · · · · · ·
	1
Name (Original Signature): Dany W. Don	yhey
Title: Production Superviser	$\bigcirc$ /

Date: 3-13-98

District If (505) 334-0101 P.O. Box 1940New MexicoHobbs, NM 88241-1980Energy Minerals and Natural ResourcesDistrict II (505) 748-1283 811 S. FirstOii Conservation DivisionArtesia, NM 882102040 South Pacheco StreetDistrict III (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410Santa Fe, New Mexico 87505District IV (505) 827-7131	<b>COMPARTMENT</b> <b>Department</b> Submit Origi: Plus 1 Copy to appropriat District Office
REQUEST FOR APPROVAL TO ACCEPT SC	LID WASTE 98018 96007
<ol> <li>RCRA Exempt: yes Non-Exempt: DATE: 3-9-98</li> <li>Verbal Approval Received: Yes No By: D. Foust.</li> <li>Management Facility Destination         <ul> <li><u>Terra Environmental Landfarm</u></li> <li>Address of Facility Operator</li> <li><u>420 County Red 3100 Aztrc Nm 87410 See Juan County</u></li> <li><u>100 Aztrc Nm 87410 See Juan County</u></li> <li>Location of Material (Street Address or ULSTR)</li> <li><u>61 County Road 4900 Bloomfield See Juan County Nm</u></li> <li><u>9. Check One</u> 87413</li> <li><u>61 All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate per job.</u></li> <li><u>8. All requests for approval to accept non-exempt wastes must be accompanied by noce the material is non-hazardous and the Generator's certification of origin. No waste civili be approved.</u></li> </ul> </li> </ol>	ssary chemical analyses to prove assified as hazardous by listing or testing
BRIEF DESCRIPTION OF THE MATERIAL: Sulfa Check Bystem - H2S treating/scrubbing / Coastal - Sulfaguard 609 Estimated Volume _ 300 6013. Known Volume (to be entered by the operation	OIL CON. DIV. DIST. 3
SIGNATURE	<u>ec.a.lis</u> t date <u>3-9-98</u> ONE NO. (505) 334-8894
(This space for State Use) APPROVED BY Demy & Rent TITLE Geologist APPROVED BY Schnel Susch TITLE	DATE <u>3/12/98</u> DATE <u>9</u>

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1.	Generator Name and Address:	2. Destination Name:
	Conoco IncNG&GP	Tierra Environmental Co., Inc.
	San Juan Gas Plant	Tierra Land Farm Faclity
	61 CR 4900	420 CR 3100
	Bloomfield, NM 87413	Aztec, San Juan County NM 87410
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Same As Above (Generator)	
		"
	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	
	Sulfa Check System - H2S treating/scr	ubbing liquid
	Coastal – Sulfa Guard 609	
		· · · ·
	For the month of March	
I.	Richard R. Theander	representative for:
	(Print Name)	
	Conoco, Inc. NG&GP, San Juan Gas Plan	do hereby certify that,
acc	Conoco, Inc. NG&GP, San Juan Gas Plan ording to the Resource Conservation and Recove	
		ry Act (RCRA) and Environmental Protection Agency's July,
198	ording to the Resource Conservation and Recove 18, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
198	ording to the Resource Conservation and Recove 88, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic
198	ording to the Resource Conservation and Recove 88, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
198 	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification
198 	ording to the Resource Conservation and Recove 88, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification
198  and	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198  and	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or that nothing has been added to the exempt or no NON-EXEMPT waste only the following docum MSDS Information	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198  and	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or that nothing has been added to the exempt or no NON-EXEMPT waste only the following docum	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198  and	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or that nothing has been added to the exempt or no NON-EXEMPT waste only the following docum MSDS Information	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198  and	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or that nothing has been added to the exempt or no NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198  and	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or that nothing has been added to the exempt or no NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198 xx and For	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198 xx and For	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis or that nothing has been added to the exempt or no NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198 and For	ording to the Resource Conservation and Recove         18, regulatory determination, the above described         EXEMPT oilfield waste	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
198 and For	ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.

Instrict II(505) 333-0101P.O. Box 1940New MexicoHobbs. NM 88241-1980Energy Minerals and Natural Resources IDistrict II(505) 748-1283811 S. FirstOil Conservation DivisionArtesia, NM 882102040 South Pacheco StreetDistrict III(505) 334-61781000 Rio Brazos Road2040Aztec. NM 87410(505) 827-7131	Department Submit Ori Plus 1 Cop to appropri District Ofi
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 9600
<ol> <li>RCRA Exempt: X Non-Exempt: DATE: 3-5-98</li> <li>Verbal Approval Received: Yes X No By: ∅, Favs 7</li> <li>Management Facility Destination</li> </ol>	<ol> <li>Generator</li> <li>BASIN DISPOSIDO'</li> <li>5. Originating Site</li> </ol>
Titler       Environmental       United motion         3. Address of Facility Operator       420 CL 3100 Aztec NM 87410         7. Location of Material (Street Address or ULSTR)	#6 CR 5046 6. Transporter Riley Fudistriad 8. State
#6 CR 5046 Bloomfield NM 87413 9. Check One	NM
<ul> <li>All requests for approval to accept oilfield exempt wastes will be accompanied by a caretrificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomanied by necess the material is non-hazardous and the Generator's certification of origin. No waste clawill be approved.</li> <li>All transporters must certify that the wastes delivered are only the</li> </ul>	esary chemical analyses to prove assified as hazardous by listing or testing
BRIEF DESCRIPTION OF THE MATERIAL: DECENVED MAR 1 1 1998 ODL GONO DUVO DUSTO 3	And solids contramination by operations
Estimated Volumeyd ³ Known Volume (to be entered by the operate	or at end of haul):yd ³
SIGNATURE <u>BLAINE</u> TITLE <u>ENV. SPECIALI</u> TYPE OR PRINT NAME <u>BLAINE</u> WILLIAME TELEPHO	DATE <u>3-5-98</u> DNE NO. <u>(505) 334-8894</u>
(This space for State Use) APPROVED BY Jemp Reint TITLE Geologist APPROVED BY Sking Buch TITLE M	DATE <u>3/12/98</u>
APPROVED BY Skinic Truch TITLE U	DATE

	•
1. Generator Name and Address:	2. Destination Name:
BASIN DISPOSAL	TIERRA ENVIRONMENTALCO
#6CR5046	Crouch Mesa Landfarm
Bloom Field, NM 87413	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
BASIN Disposa C	#6 CR 5046
Attach list of originating sites as appropriate	BLOOMField, NM 87413
4. Source and Description of Waste	Bottoms AND Solids obtainen Daily operations
her	DAILY OPERATIONS
I, Jimmy / BANNe	S representative for:
according to the Resource Conservation and Recov 1988, regulatory determination, the above described	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
	<b>EMPT</b> oilfield waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or n	non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docu MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	umentation is attached (check appropriate items): Other (description):
Name (Original Signature):	Bern
Date: 3-4-98	

	•			
<u>ряцисі і (505)</u> 373-0101 P.O. Box 1940 Hobbs, NM 88241-1980 District II (505) 748-1283		New Mexico and Natural Resources	5 Department	Congunation 44 (x-1)C
811 S. First Artesia, NM 88210 District III (505) 334-6178 1000 Rio Brazos Road	204	Conservation Division O South Pacheco Street a Fe, New Mexico 87505		Submit Origi Plus 1 Copy to appropriat
Aztec, NM 87410 <u>District IV</u> (505) 827-7131		(505) 827-7131		District Office
	REQUEST FOR AP	PROVAL TO ACCEPT S		96007
1. RCRA Exempt:	Non-Exempt:	DATE: 2-27-98	4. Generator	· .
Verbal Approval Re		By: D. Foust	Burlington Resou	DICES
2. Management Faci			5. Originating Site	
3. Address of Facility	<u>mental Landfarm</u> Operator	<b>^</b>	6. Transporter	Battery #3
		San Ting County	0. Mansporter	
7. Location of Materi	Aztrc, Nn 87410 ial (Street Address or	ULSTR)	8. State	
Sec-22 T-30	N, RGW Rio Arr	iba County	NM	
9. <u>Check Óne</u>	,			
All requests certificate pe	for approval to accept oilfield ex er job.	empt wastes will be accompanied by	a certificate of waste from the Gen	erator: one
B. All requests the material will be appro	is non-hazardous and the Gener	npt wastes must be accomanied by ne ator's certification of origin. No waste	ecessary chemical analyses to prove classified as hazardous by listing	/e or testing
All transporters mus	st certify that the was	stes delivered are only	those consigned for tr	ansport.
BRIEF DESCRIPTION O	F THE MATERIAL:			
Tank bottoms	from Coal Sean	n water tanks (m	rainty - Coal fines	)
		DECEIN	En	
		UN MAR 1 1 199	_в Ш	
Estimated Volume80	bbls the Know	OIL CON. D n Volume (to be ente		yd ³
	1	ì		2
SIGNATURE	<b>1</b> .	LE ENVironmental	,	A
TYPE OR PRINT NA E	lim Nobis	TELEF	PHONE NO. (505) 33	4-8894
(This space for State Use)				
PPROVED BY	your teen TITL	E <u>Geologist</u>	DATE 3//2	198
PPROVED BY		EÝ		9

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1. Generator Name and	d Address:	2. Destination Name:
BURLINGTON I	RESOURCES	Tierra Landfarm
3535 EAST 30th	n STREET	
FARMINGTON	, NM 87402	
J		
3. Originating Site (na	me):	Location of the Waste (Street address &/or
San Juan Central Tank	Battery #3	ULSTR):
San Juan Contrai Talik	Dattery #5	Section 22, T30N, R6W
		Rio Arriba County, NM
	_	27
Attach list of originating sites a		
4. Source and Descript	ion of Waste:	
. Tank bottoms from coal	l seam water tanks (mainly coal fir	nes).
	· · · · · · · · · · · · · · · · · · ·	
I,	Ed Hasely	representative for:
	BURLINGTON RESOURCES	do hereby certify that,
according to the Desource		(RCRA) and Environmental Protection
•	ulatory determination, the above d	
		escribed waste is: (check appropriate classification)
		escribed waste is. (check appropriate classification)
X EXEMPT oilfield		-EXEMPT oilfield waste which is non-
	waste NON hazar	-EXEMPT oilfield waste which is non- rdous by characteristic analysis or by product
	waste NON hazar	-EXEMPT oilfield waste which is non-
	waste NON hazar	-EXEMPT oilfield waste which is non- rdous by characteristic analysis or by product
X EXEMPT oilfield	waste NON hazan ident	<b>-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification
X EXEMPT oilfield	waste NON hazan ident	-EXEMPT oilfield waste which is non- rdous by characteristic analysis or by product
X EXEMPT oilfield	waste NON hazan ident	<b>-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification
X <b>EXEMPT</b> oilfield and that nothing has been	waste NON hazar ident	<b>-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was	waste NON hazan ident n added to the exempt or non-exem ste only the following documentati	<b>I-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio	waste NON hazan ident n added to the exempt or non-exem ste only the following documentation	<b>EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above.
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous	waste NON hazan ident n added to the exempt or non-exem ste only the following documentation	<b>I-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio	waste NON hazan ident n added to the exempt or non-exem ste only the following documentation	<b>I-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous	waste NON hazan ident n added to the exempt or non-exem ste only the following documentation	<b>I-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous Chain of Custody	waste NON hazan ident n added to the exempt or non-exem ste only the following documentation	<b>I-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous	waste NON hazan ident n added to the exempt or non-exem ste only the following documentation	<b>I-EXEMPT</b> oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous Chain of Custody	waste NON hazan ident n added to the exempt or non-exem ste only the following documentation	A-EXEMPT oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items): Other (description):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous Chain of Custody Name (Original Signature): Title:	waste NON hazar ident n added to the exempt or non-exem ste only the following documentation Waste Analysis <u>SR STAFF ENVIRONMENTAL</u>	A-EXEMPT oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items): Other (description):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous Chain of Custody Name (Original Signature):	waste NON hazar ident n added to the exempt or non-exem ste only the following documentation Waste Analysis	I-EXEMPT oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items): Other (description):
X EXEMPT oilfield and that nothing has been For NON-EXEMPT was MSDS Informatio RCRA Hazardous Chain of Custody Name (Original Signature): Title:	waste NON hazar ident n added to the exempt or non-exem ste only the following documentation Waste Analysis <u>SR STAFF ENVIRONMENTAL</u>	A-EXEMPT oilfield waste which is non- rdous by characteristic analysis or by product ification npt non-hazardous waste defined above. on is attached (check appropriate items): Other (description):

in in the second	
Instrict I(505) 333-0101New MexicoHobbs, NM 88241-1980Energy Minerals and Natural Resources IDistrict II(505) 748-1283811 S. FirstOil Conservation Division	Conginated 4/18/45 Department
811 S. FirstOff Conservation DivisionArtesia, NM882102040 South Pacheco StreetDistrict III (505) 334-6178Santa Fe, New Mexico 875051000 Rio Brazos Road(505) 827-7131District IV (505) 827-7131	Submit Origi Plus 1 Copy to appropriat District Office
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE . 96007
1. RCRA Exempt: X Non-Exempt: DATE: $2 - 24 - 98$	4. Generator
Verbal Approval Received: (Yes) No       By: (). Foust.         2. Management Facility Destination	5. Originating Site
Jerra Evviconmental Landfarm 3. Address of Facility Operator	
	6. Transporter McCoy bas Con "A" # 1
	8. State
McCoy Gas Com "A" #1 Sec-18 T-3IN, R-1043 Sun Juan County 9. Check One	New Mexico
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a c certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste cla will be approved.	ssary chemical analyses to prove assified as hazardous by listing or testing
All transporters must certify that the wastes delivered are only the	ose consigned for transport.
BRIEF DESCRIPTION OF THE MATERIAL:	
Constaminated Material From Pit Closure.	
	Deceived
	E FEB 2 4 1998
	Olil COM. DIV. DIST. 3
Estimated Volume $2000$ yd ³ Known Volume (to be entered by the operat	or at end of haul):yd ³
SIGNATURE TITLE ENVIRONMENTAL Species	alist DATE 2-24-98
TYPE OR PRINT NAME Tim Nobis TELEPH	ONE NO
(This space for State Use)	· · · ·
PPROVED BY Demps. Rent TITLE Geologist	DATE 2-24-98
PPROVED BY Since TITLE Fer	DATE 2 2 IR

	5
DATE	4
	-

	•
1. Generator Name and Address:	2. Destination Name:
PNM	Tierra Environ mental Landform
603 W. Elm	420 C.R. 3100
Farmington, NM 87401	Aztec, NM 87410.
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
McCoy Gas Com "A" #1	5ec-18, T=31N, R-10W
	San Juan County, NM.
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Contaminated Material from	Pit Closure.
1	representative for:
(Print Name)	
	do hereby certify that
-	d Recovery Act (RCRA) and Environmental Protection Agency's July escribed waste is: (Check appropriate classification)
X EXEMPT oilfield waste N	ON-EXEMPT oilfield waste which is non-hazardous by characteristic
— —	nalysis or by product identification
and that nothing has been added to the exer	npt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the followi MSDS Information RCRA Hazardous Waste Ar Chain of Custody	ng documentation is attached (check appropriate items): Other (description): nalysis
Name (Original Signature): <u>Man 8.</u> Title: <u>Equina pute Car</u> Nine	Took La
Date:2/24/97	

P.O. Box 1940 New Mexico	<b>F.UTHL U-1.3</b> (Aigmated 4/18/95
Hobbs, NM 88241-1980 District II (505) 748-1283 St1 S First Energy Minerals and Natural Resources I Oil Conservation Division	Department
811 S. FirstOld Conservation DivisionArtesia, NM 882102040 South Pacheco Street	S.1
District III (505) 334-6178 Santa Fe, New Mexico 87505	Submit Origi Plus 1 Copy
Aztec, NM 87410 (505) 827-7131	to appropriat District Office
<u>District IV</u> (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 98009 5
1. RCRA Exempt: X Non-Exempt: DATE: Z-10-98	4. Generator
Verbal Approval Received: (Yes) No By: D. Foust	Burlington RESOURCES
2. Management Facility Destination	5. Originating Site
TIERRA ENVIRONMENTAL LANDFARM FACILITY	McGRAth SWD#4
3. Address of Facility Operator	6. Transporter
HZO CR 3100       Azfec NM       87410         7. Location of Material (Street Address or ULSTR)	DAWN TRUCKING
	8. State
SECTION 34 TOWNSHIP 30 N RANGE 12W	NM
9 <u>Check One</u>	
All requests for approval to accept oilfield exempt wastes will be accompanied by a c certificate per job.	ertificate of waste from the Generator; one
B. All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste cla will be approved.	ssary chemical analyses to prove assified as hazardous by listing or testing
All transporters must certify that the wastes delivered are only the	ose consigned for transport.
BRIEF-DESCRIPTION-OF-THE-MAJERIAL:	
Filtepen Solia. Fo	
DECENVED WASTE FLUDS.	I INCOMING OILFIELD
TANK R. LI	
TANK Bottoms FROM SKI	MMER AND
OTTLE CON DIV. SOPARATOR p.45	
Estimated Volume 600 BBLS yd ³ Known Volume (to be entered by the operat	or at end of haul):yd ³
30 = 100	
SIGNATURE Blain Weller TITLE ENVIRONMENTAL	
TYPE OR PRINT NAME BLAINE Williams TELEPH	ONE NO(505) 334-8894
	edaleterar u a fu
APPROVED BY NEW D. Jan TITLE GeologIS	DATE <u>2/23/98</u>
APPROVED BY	DATE 2/23/98

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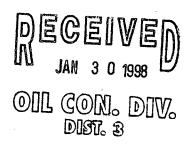
<u>P.O. Box 1940</u> New Mexico	
Hobbs, NM 88241-1900 Lnergy Winerais and Natural Kesources	
District II (505) 748-1283 811 S. First Oil Conservation Division	
Artesia, NM 882102040 South Pacheco StreetDistrict III (505) 334-6178Santa Fe, New Mexico 87505	Submit Origi
1000 Rio Brazos Road (605) 927 7131	Plus 1 Copy to appropriat
Aziec, NM 87410 (505) 827-7131	District Offic
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 98005 9005
1. RCRA Exempt: X Non-Exempt: DATE: 1-13-98	4. Generator
Verbal Approval Received: Yes X No Rv D. Fousy	Buehngton Resources
2. Management Facility Destination	5. Originating Site
TIEREA Environmental LANDFARM FACILITY	55 30-6 #Z SWA
3. Address of Facility Operator	6. Transporter
420 CR 3100 Artoc NM 87410	
7. Location of Material (Street Address or ULSTR)	8. State
NWNW 5-23, T-30N, R-07W Rio ARERIDA Co.	NM
9. <u>Check One</u>	· ·
All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate per job.	ertificate of waste from the Generator; one
B. All requests for approval to accept non-exempt wastes must be accomanied by nece the material is non-hazardous and the Generator's certification of origin. No waste cl will be approved.	essary chemical analyses to prove assified as hazardous by listing or testing
All transporters must certify that the wastes delivered are only th	ose consigned for transport.
BRIEF DESCRIPTION OF THE MATERIAL:	
BRIEF DESCRIPTION OF THE MATERIAL: DECEIVED Solutos FROM DOMN JAN 1 3 1998 DIL CON DIVO	hole treatment
IN JAN 1 3 1998	Some Emulsion
I And Betterns Frenn Fre	all
DIST. 3	
Ne in the second se	· `
Estimated Volume <u>500 BBL</u> yd ³ Known Volume (to be entered by the opera	tor at end of haul):yd ³
SIGNATURE Bain Willer TITLE Environmental S	Arcialist DATE 1-13-98
	IONE NO(505) 334-8894
(This space for State Use)	
APPROVED BY Denny & Zent TITLE Geologist	DATE 1/29/98
APPROVED BY Senie Buch TITLE Geologist	DATE 2/2/198
	150

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## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and	1 Address:	2. Destination Name:	7
BURLINGTON 1 3535 EAST 30th FARMINGTON	I STREET	Tierra Landfarm	
DPNO. 41701 NWNW, Sec.	2 SWD FACILITY 4 23, T30N, ROTW-(Ric	Location of the Waste (Street address &/or ULSTR): > ARR; bA Co.) New Mayicd	
Attach list of originating sites a 4. Source and Descript PRIMARILY Spa Some (Oil 5 ALL chamica Weilbores -	ion of Waste: mī chemicatis unice mulgion (BS) Less The	years of service And An 2%) Repartles Dowhole of The oil field 66/5.	
I, Kenne	TH G. Johnson	representative for:	
-	• •	do hereby certify that, CRA) and Environmental Protection cribed waste is: (check appropriate classification)	
EXEMPT oilfield	waste NON-H hazardo identific	EXEMPT oilfield waste which is not E	VED 1998
and that nothing has been	added to the exempt or non-exemp	t non-hazardous waste defined above ON	5 DIV. 3
For NON-EXEMPT was	te only the following documentation	is attached (check appropriate items):	
MSDS Information RCRA Hazardous Chain of Custody		Other (description):	
Name (Original Signature):	Kennert Stof	vser	
Title:	Phoduction For	eman aren 7	_
Date:	January 13	1998	-

		- · · · · · · · ·	
<u>Ensures</u> 1 (302) 373-0101	New Mexico Enormy Minerals and Natural Posouroos	Donautmont	CUTHI C-1. Orginater 1/18/05
<u>District II</u> (505) 748-1283	Energy Minerals and Natural Resources Oil Conservation Division	Department	
811 S. First Artesia, NM 88210	2040 South Pacheco Street	· .	Submit Origi
<u>District III</u> (505) 334-6178 1000 Rio Brazos Road	Santa Fe, New Mexico 87505		Plus 1 Copy to appropriat
Aztec, NM 87410 District IV (505) 827-7131	(505) 827-7131		District Offic
			n na sana mana ina sana ana manjannya. Na
	REQUEST FOR APPROVAL TO ACCEPT SC		98002 20007
1. RURA Exempt: X		4. Generator	
Verbal Approval Rec		Conco	NGIP
2. Maagement Faci		5. Originating	Site
LIERPA Enu	recommental Co Fine LAMDFARM	CONOCO	Plant
3. Address of Facility	o Operator	6. Transporter	
	· Actor NM 87410	Riley Tro	Niteria
	al (Street Address or ULSTR)	8. State	
61 Rd 4	900 Bloomfield 87413	Nm	
9. <u>Check One</u>	· · · · · ·		
A. All requests certificate pe	for approval to accept oilfield exempt wastes will be accompanied by a probability of a	certificate of waste from t	he Generator; one
B. All requests the material will be appro	for approval to accept non-exempt wastes must be accomanied by nece is non-hazardous and the Generator's certification of origin. No waste o ved.	essary chemical analyses lassified as hazardous by	s to prove y listing or testing
All transporters mus	t certify that the wastes delivered are only th	ose consigned	for transport.
BRIEF DESCRIPTION O	Sulfa Check System	m-the t	reali
ARAR			
DECE			
I MAL JU	3 1998 B	007	
00] [00] 1810			
Estimated Volume	$\frac{3}{10}$ $\frac{3}{10}$ Known Volume (to be entered by the operation	itor at end of haul):	yd ³
			a na anna an Anna an Anna an Anna an Anna Ann
SIGNATURE	TITLE <u>Fry. Specialist</u>	DATE	1-5-98
TYPE OR PRINT NAME	Blaine Williams TELEPH	IONE NO(50	5) 334-8894
(This space for State Use)			
APPROVED BY Der	May TempTITLE Geologist	DATE	1/14/98
	Set TITLE Geolog-34	DATE /	2/3/78
•	<i>(</i>		



1	Generator Name and Address:	2. Destination Name:
	Conoco Inc NG&GP	Tierra Environmental Co., Inc.
1	San Juan Gas Plant	Tierra Land Farm Facility
	61 CR 4900 Bloomfield, NM 87413	420 CR 3100 Aztec, San Juan County NM 87410
3	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Same as above ( Generator )	
	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	
	Sulfa Check System - H ₂ S trea	ting/scrubbing waste
	Sulfa Guard 609	£
1	Richard R Theander	representative for:
'/	Richard R Lheander (Print Name)	
	Conoco Inc., NG&GP, San Juan G	as Plant do hereby certify that,
	A the state of a state of the state	
	EXEMPT oilfield waste	Seribed waste is: (Check appropriate classification) N-EXEMPT cliffield waste which is non-hazardous by characteristic alysis or by product identification
<u>x</u>	EXEMPT oilfield waste No	N-EXEMPT oilfield waste which is non-hazardous by characteristic
x and	EXEMPT oilfield waste NO an that nothing has been added to the exem	DN-EXEMPT olifield waste which is non-hazardous by characteristic alysis or by product identification pt or non-exempt non-hazardous waste defined above. g documentation is attached (check appropriate items): Other (description):
x and For	EXEMPT oilfield waste NO an that nothing has been added to the exem NON-EXEMPT waste only the followin MSDS Information RCRA Hazardous Waste And	ON-EXEMPT olifield waste which is non-hazardous by characteristic alysis or by product identification opt or non-exempt non-hazardous waste defined above. g documentation is attached (check appropriate items): Other (description): alysis
x and For	EXEMPT oilfield waste No an that nothing has been added to the exem NON-EXEMPT waste only the followin MSDS Information MSDS Information RCRA Hazardous Waste And Chain of Custody	ON-EXEMPT olifield waste which is non-hazardous by characteristic alysis or by product identification opt or non-exempt non-hazardous waste defined above. g documentation is attached (check appropriate items): Other (description): alysis
x and For I Nam	EXEMPT oilfield wasts No an that nothing has been added to the exem NON-EXEMPT waste only the followin MSDS Information RCRA Hazardous Waste And Chain of Custody c (Original Signature):	ON-EXEMPT olifield waste which is non-hazardous by characteristic alysis or by product identification opt or non-exempt non-hazardous waste defined above. g documentation is attached (check appropriate items): Other (description): alysis
x and For	EXEMPT oilfield wasts No an that nothing has been added to the exem NON-EXEMPT waste only the followin MSDS Information RCRA Hazardous Waste And Chain of Custody c (Original Signature):	ON-EXEMPT olifield waste which is non-hazardous by characteristic alysis or by product identification opt or non-exempt non-hazardous waste defined above. g documentation is attached (check appropriate items): Other (description): alysis
x and For I Nam	EXEMPT oilfield wasts No an that nothing has been added to the exem NON-EXEMPT waste only the followin MSDS Information RCRA Hazardous Waste And Chain of Custody c (Original Signature):	ON-EXEMPT olifield waste which is non-hazardous by characteristic alysis or by product identification opt or non-exempt non-hazardous waste defined above. g documentation is attached (check appropriate items): Other (description): alysis

AUG 11'97 7:35 FR CONOC J

JGP RMD

FROM

505632493



9.82

ppm : Acuta: 68000 (Ret.).

(4 hour(s)),

04-29-1-02:109m

Coastal Fluid Tech

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**Material Safety Data Sheet** 

SulfaGuard 609 Compandel Name Code 7183 MSDS# Not available. COASTAL FLUID TECHNOLOGIES, INC. Supplier Validation Date 1/14/97 3520 Veterans Memorial Drive ABBEVILLE. LA 70510 Print Date 4/28/97 318-895-1952 Not available Syscoym la casa di TRANSPORTATION Trade asme Not available. Emerane EMERGENCY: CHEM-TEL, INC Material Uses Not available. 1-800-255-3924 Manufacturer COASTAL FLUID TECHNOLOGIES, INC. 3520 Veterans Memorial Drive ABBEVILLE, LA 70510 318-693-1952 ····· Name CASH % by TLV/PEL LC./LD. Weight TWA: 200 STEL: 250 (ppm) Momenol 87-56-1 <15 ORAL (LDS0) mg/kg: Acute: TWA: 260 STEL: 328 5828 (Rat). DERMAL  $(m_0/m^3)$ (LD50) mg/kg: Acute: 15800 (Rabbit). VAPOR (LC50)

CAUTION

Emergency Overview

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Rouges of Kutry

Eye contect. Ingestion. Inhalation.

Potential Acute Health Efforts

Posisie Chronie Sealth

Stightly dangerous to dangerous in case of skin contact (initant), of eye contact (initant), of ingestion of inhalation. Very slightly to slightly dangerous in case of skin contact (percestor). Severe over-exposure can result in desth. Can be fatal if inhaled or ingested. This product may initate eyes and skin upon contact.

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available: TERATOGENIC EFFECTS: Not available. The substance is toxic to the nervous system, the reproductive system. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. AUG 11197 7:37 TH JONK SIGN AMD 5056324930 9-304-3024 P.03/05 04-28-1997 02:129M FROM Coastal Fluid Tech TU 150563249301999 P.01

and a second second

04-28-1997 02:129M	FROM Coastal Fluid Tech	π	150563249301999	P.Ø1
			· · · · · · · · · · · · · · · · · · ·	1
SulfeGuard 609			Pa	iye Mumber:
	Check for and remove any contact lenses. least 15 minutes, keeping eyelids open. ointment. Seek medical attantion.			
	If the chemical got onto the clothed portio quickly as possible, protacting your own shower. If the chemical touches the vict thoroughly wash the contaminated skin with careful to clean folds, crevices, creases and skin with an emolliant. If imitation persists, before reusing.	hands and bod tim's exposed a running water a grown. COLD w	y. Place the victim kin, such as the han nd non-ebrasive scap rater may be used. C	inder a delu ds: Gently a Be persould over the inital
Harardons Skin Contact	Wash with a disinfectant soap and cover Seak immediate medical attention.	the contaminat	ed skin with an anti-t	acterial crea
Lehsletion	Allow the victim to rest in a well ventilated a	rea. Seek imme	diate medical attention	L.
Huzhrikous Inhaistion	Evacuate the victim to a safe area as soon belt or waistband. If breathing is difficult, an mouth-to-mouth resuscitation, WARNING give mouth-to-mouth resuscitation when the immediate medical attention.	iminister oxygen : It may be dan	. If the victim is not br perous to the person	sistning, parto providing aid
Ingention	DO NOT Induce vomiting. Have conscious immediate medical attention.	s person drink s	everal glasses of wate	er or milk. Se
Hazardous Ingestion	DO NOT induce vomiting. Examine the I demaged, a possible indication that the ton however, is not conclusive. Loosen tight of victim is not breathing, perform mouth-to-mo	oc material was Nothing such as	ingested; the absence a collar, tie, belt or w	e of such sig elstband. If
Pickinsbillty of the Product	Flammable.		The second secon	
	The lowest known value is 385°C (725°F) (	Aethanol).		
Flash Polats	The lowest known value is OPEN CUP: 11		Cleveland) (Methanol)	<u>···</u>
Planimeble Limits	The greatest known range is LOWER: 6%	UPPER: 36.5%	Methanoi)	·
Presisters of Combustion	These products are carbon oxides (CO, CO	2).	·	
Varhous Sabotances	Highly flammable in presence of open flame	<b>ea and sparks</b> , o	heat, of combustible i	meteriala.
Explosion Harards in Propince of Various Salestanics	Risks of explosion of the product in presence Risks of explosion of the product in presence No specific information is available in our the presence of various materials.	e of static disch	arge: Not available.	
Fire Sighting Media and Fastractions	Flammable liquid, soluble or dispersed in w SMALL FIRE: Use DRY chemicals, CO2, a LARGE FIRE: Use alcohol foam, water s order to prevent pressure build-up, autoigni	icohol foam or v pray or fog. Co	ol containing vessels	with water je
Spotial Romarks on Pirt Elesards Spotial Remarks ca	Explosive in the form of vapor when expo distance to source of ignition and flash back and irritating fumes. (Methanol) No additional remark.	ised to heat or f k. When heated	lame. Vepor may tra to decomposition, it e	vel considera mits acrid sm

APR 28 '97 7:59

3188938795 PAGE. 201

AUG 11797 7:38 FR CON

Storage

P.04/08

SJGP RMD 5056324930 9-334-9024 84-28-1997 82:13AM Fruit Coastal Fluid Tech 158563249391999 P.82 TO Poge Humber: 3 SblaGuard 609 Small Soul Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste discosal container. Flammable liquid. Lorge Spill Keep sway from heat. Keep away from sources of ignition. Stop leak if without risk. Absorp with DRY earth, send or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Handling Not avialable. Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed, Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a tash point lower than 37.8°C (100°F). Engineering Costrols Provide exhaust ventilation or other engeneering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. Personal Protection Safety glasses. Synthetic apron. Gloves (impervious). Wear appropriate respirator when ventilation is inadequate. Personal Protection in Case Splash goggles. Full suit, Boots, Gloves, Suggested protective clothing might not be sufficient, of a Large Spill consult a specialist BEFORE handling this product: Clientical Name or Product Name CAS # Exposure Limits TWA: 200 STEL: 250 (ppm) Methanol 67-56-1 TWA: 260 STEL: 328 (mg/m*) Physical state and Liouid. Odor Not available. apperance Taste Not available. Molecular Weight Not soplicable. Color Straw color. (Light.) pH (1% sola/water) Noutral Boliling Point The lowest known value is 64.7°C (148.5°F) (Methanol). Metting Point May start to solidity at -97.8°C (-144°F) based on data for; Methanol. **Officel** Temperetare Not available. Specific Gravity 1.05 (Water = 1) Vapor Pressure The Highest known value is 97.58 mm of Hg (@ 20°C) (Methanoi). Vapor Density The highest known value is 1.11 (Air = 1) (Methanol). Volatility Not available. Odbr Threshold Not evallable. Evaporation rate Not available. Visiboolity Not available. Water Ol Dist Coeff. Not available. losicity (in Water) Not available. Dispersion Properties Is not dispersed in methanol, distinut ether. See solubility in water, methanol, distinyl other. Selebility Easily soluble in cold water, hot water, methanol, distryl other.

APR 28 '97 8:81

### AUG'11"97 7:39 FR CONC 84-28-1997 82:14RM FROM Coastal Fluid Tech

SJGP RMD 5056324930 TO

156563249381999 P.83

and the area of the

9-334-9024. 9.05/05

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SulfaGuard 809			
A REAL PROPERTY AND A REAL		Page Numbers 4	ĺ
bystepl Clemical Demotats	Not available.		
benical Stability	The product is stable.		
additions of Castability	No additional remark.		
compacedility with	Highly reactive with outdizing agents.		
	Not svalieble.		
azerebus Polymerization	No.		 
			İ
oriety to Animate	WARNING: THE LCSO VALUES HEREUNDER ARE ESTIMATE	ON THE BASIS OF A 4-	
	HOUR EXPOSURE.		
• •	Acute onal toxicity (LDS0): > 5000 mg/kg (Rat) Acute definial toxicity (LDS0): > 5000 mg/kg (Rebbit.)	ан солон br>Таката солон сол	ł
	Acute toxicity of the vapor (LC50): > 5000 mp/m (Rat.)		
broble Effects on Humans	The substance is toxic to the nervous system, the reproductive system	<u>).</u>	1
ther Toxic Effects on	Slightly dangerous to dangerous in case of skin contact (irritent).	of eve contact (imitant), of	
lumiant	ingestion, of inhalation. Very slightly to slightly dangerous in case of skin contact (permeator).		
petial Remerks on oxicity to Animale	No additional remark.		1
pocial Remarks as	0040 Peises through the placental barrier.	<u> </u>	1
Inrodie Effects on Ramons	May be fittel or cause blindness if swellowed. (Methanol)		
pocial Remarks on other foxic Effects on Bumans	Narcotic. (Methenol)		
Server and the server of the server states and the server s			
			y.
rotoricity	Not avaiable.		
	Not available.		
BOD5 and COD	Not svailable.	kely. However, long term	
BODS and COD Products of Blodegradation	Not available. Possibly hazardous short term degradation products are not if degradation products may arise.	kely. However, long term	
BODS and COD Products of Blodegradation Toxicity of the Products	Not available. Possibly hazardous short term degradation products are not li	kely. However, long term	
BODS and COD Products of Blodegradation Texticity of the Products of Biologradation Specks Rémarks on the	Not available. Possibly hazardous short term degradation products are not lidegradation products may arise. The products of degradation are less toxic than the product liseif. No additional remark.	kely. However, long term	
BODS and COD Products of Blodegradation Toxicity of the Products of Biologradation Spechs Rémarks on the	Not available. Possibly hazardous short term degradation products are not lidegradation products may arise. The products of degradation are less toxic than the product liseif. No additional remark.	kely. However, long term	
BODS and COD Products of Blodegradation Toxicity of the Products of Biolograd260s Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not if degradation products may arise. The products of degradation are less tonic than the product itself. No additional remark.	kely. However, long term	
2005 and COD Products of Blodegradation Foxicity of the Products of Biologradation Special Rémarks on the Products of Biologradation	Not available. Possibly hazardous short term degradation products are not lidegradation products may arise. The products of degradation are less toxic than the product liseif. No additional remark.	kely. However, long term	
2005 and COD Products of Blodegradation Foxicity of the Products of Biologradation Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not if degradation products may arise. The products of degradation are less tonic than the product itself. No additional remark.	kely. However, long term	
BODS and COD Products of Blodegradation Toxicity of the Products of Biolograd260s Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not if degradation products may arise. The products of degradation are less tonic than the product itself. No additional remark.	kely. However, long term	
EODS and COD Products of Blodegradation Texicity of the Products of Biologradation Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not if degradation products may arise. The products of degradation are less tonic than the product itself. No additional remark.	kely. However, long term	
EODS and COD Products of Blodegradation Texicity of the Products of Biologradation Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not if degradation products may arise. The products of degradation are less tonic than the product itself. No additional remark.	kely. However, long term	
EODS and COD Products of Blodegradation Texicity of the Products of Biologradation Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not if degradation products may arise. The products of degradation are less tonic than the product itself. No additional remark.	kely. However, long term	
Ecologicity EOD5 and COD Products of Blodegradation of Biologradation Special Rémarks on the Products of Biologradation Waste Disposal	Not svallable. Possibly hazardous short term degradation products are not if degradation products may arise. The products of degradation are less tonic than the product itself. No additional remark.	kely. However, long term	
BODS and COD Products of Blodegradation Texicity of the Products of Biologradefies Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not lidegradation products may arise. The products of degradation are less toxic than the product itself. No additional remark.	kely. However, long term	
EODS and COD Products of Blodegradation Texicity of the Products of Biologradation Special Rémarks on the Products of Biologradation	Not svallable. Possibly hazardous short term degradation products are not lidegradation products may arise. The products of degradation are less toxic than the product itself. No additional remark.	kely. However, long term	

84-28-1997 82:150	M FROM Coastal Flui	d Tech TO	1585632493819	99 P.84	
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EL Shife Change Con			<u></u>		
Soff Squard 609		· · · · · · · · · · · · · · · · · · ·		Page Rumber: 8	
Propper Shipping Name		i sider i series e s			
DOT Classification	Flammable liquidá n.o.s.			1	7
	DOT CLASS 3: Flammable	liquid.			7
DOT Identification Number	UN 1993				
Packing Group	PGI		· · · · · · · · · · · · · · · · · · ·		
Hasardous Substancer Reportable Quantity	9071:8	······································			-
Special Provisions for	(contains Methanol)			i	_ ··
Transport	•	· .			
Federal and State	The following product(a) is	a (are) listed on SARA 313:	Mathemat		
Regulations	Ine tollowing product(s) is	(are) listed by the State of (are) listed on TSCA: Ma	Maggachungthe Blak	hanol	
				· . ·	1
Other Classifications	WEIMES (CHERGE) WHMIS (100°F)	CLASS B-2: Flammable liq	uid with a flash point lo	wer than 37.8°C	-
	. WHIMIS	). 5 CLASS D-2A; Material cau			1
•	DSCL (EEC) R12-E				
		xtremely fiammable.			-
		xtremely fiammable. ary toxic if swallowed.			
		xtremely fiammable.			
HMIS (U.S.A.)	R28- V	xtremely fiammable.		Pive Ragard	
HMIS (U.S.A.)	R28- V	Attomsly farmable. Bry toxic if swallowed. National Fire Protection	3	Pire Hagard	
HMIS (U.S.A.)	R28- V	xtromsly fiammable. sry toxic if swallowed. National Fire	3		
	R28-V	Attomsly farmable. Bry toxic if swallowed. National Fire Protection	3	Pire Hagard	
References Not	R28- Vi Process Protocion C Personal Protocion C	Attomsly farmable. Bry toxic if swallowed. National Fire Protection	3	Pire Hagard	
References Not	R28-V	Attomsly farmable. Bry toxic if swallowed. National Fire Protection	3	Pire Hagard	
References Not a Other Special No a Considerations	R28- Vi R28- Vi Porecession 2 3 0 Porecession C available addisional remark.	Association (U.S.A.)	Heak's	Pire Hagard	
References Not a Other Special No a Considerations Validated by Chartes Toup	R28- Vi R28- Vi Porecession 2 3 0 Porecession C available addisional remark.	vironely flammable. ery toxic if swallowed. National Fire Protection Association (U.S.A.)	Heak's	Pire Hagard	
References Not a Other Special No a Considerations Validated by Chartes Toup Ethingency Contact	R28- Vi Personal Protoction C Personal Protoction C available addisonal remark.	Vertiled by Charles T Printed 4/28/97.	Heak's	Pire Hagard	
References Not a Other Special No a Considerations Validated by Chartes Toup Etilogency Contacts	R28- Vo R28- Vo R28	Association (U.S.A.) Verified by Charles T Printed 4/28/97.	Heakts	Fire Hazard Reactivity Specific hazard	
References Not a Other Special No a Considerations Validated by Chartes Toup Etilogency Contacts	R28- Vo R28- Vo R28	Association (U.S.A.) Verified by Charles T Printed 4/28/97.	Heakts	Fire Hazard Reactivity Specific hazard	
References Not a Other Special No a Considerations Validated by Chartes Toup Etilogency Contacts	R28- Vo R28- Vo R28	Association (U.S.A.) Verified by Charles T Printed 4/28/97.	Heakts	Fire Hazard Reactivity Specific hazard	
References Not a Other Special No a Considerations Validated by Chartes Toup Etilogency Contacts	R28- Vi Personal Protoction C Personal Protoction C available addisonal remark.	Association (U.S.A.) Verified by Charles T Printed 4/28/97.	Heakts	Fire Hazard Reactivity Specific hazard	
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References Not a Other Special No a Considerations Validated by Chartes Toup Etilogency Contacts	R28- Vo R28- Vo R28	Association (U.S.A.) Verified by Charles T Printed 4/28/97.	Heakts	Fire Hazard Reactivity Specific hazard	
References Not a Other Special No a Considerations Validated by Chartes Toup Etilogency Contacts	R28- Vo R28- Vo R28	Association (U.S.A.) Verified by Charles T Printed 4/28/97.	Heakts	Fire Hazard Reactivity Specific hazard	

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** TOTAL PAGE.305 **

District II (505) 335'0101New MexicoP.O. Box 1940Energy Minerals and Natural Resources DepartreHobbs, NM 88241-1980Energy Minerals and Natural Resources DepartreDistrict II (505) 748-1283Oil Conservation Division811 S. First2040 South Pacheco StreetArtesia, NM 882102040 South Pacheco StreetDistrict III (505) 334-6178Santa Fe, New Mexico 875051000 Rio Brazos Road(505) 827-7131District IV (505) 827-7131District IV (505) 827-7131	FUFIII C-1. Ment Submit Origi Plus 1 Copy to appropriat District Offic
REQUEST FOR APPROVAL TO ACCEPT SOLID WA	STE 96007
1. RCRA Exempt:       X       Non-Exempt:       DATE:       /-6-98       4. Ger         Verbal Approval Received:       Yes       No       By:       D. Foust       PNM 6	nerator Gas Services (Amoco)
	ginating Site
2 Address of Equility Operator	
<ul> <li><u>3-15</u> <u>T-30N</u> <u>R-08</u> <u>SaN Juan County</u> <u>New</u></li> <li><u>9. Check One</u></li> <li><u>All requests for approval to accept oilfield exempt wastes will be accompanied by a certificate of vertificate per job.</u></li> <li>B. All requests for approval to accept non-exempt wastes must be accomanied by necessary chemic the material is non-hazardous and the Generator's certification of origin. No waste classified as h will be approved.</li> <li>All transporters must certify that the wastes delivered are only those contained.</li> </ul>	cal analyses to prove nazardous by listing or testing
	1998 2 1998 N. DIV. N. 3
Estimated Volume	f haul):yd ³
SIGNATURE A Male Tim Nabis TITLE EN VIRONMENTAL SPECIALIST TYPE OR PRINT NAME Tim Nabis TELEPHONE NO.	DATE (505) 33 <u>4</u> -8894
PROVED BY Demy B. Pom TITLE Geologist	date 1/15/98 date 6 ? -

D,	A	Т	I
<b>U</b> 4			ł

	<u> </u>
1. Generator Name and Address:	2. Destination Name:
PNM Gas Services (Amoco)	Tierra Environmental Landfarm
603 W. Elm	420 C.R. 3100
Farmington, NM 87401	Aztec, NM B7410
Farmington, NM 87401 3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Florance #32A	5-15, T-30N, R-08W
	San Juan County, NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste	· · · · · · · · · · · · · · · · · · ·
Exempt Waste	
(Pit Remediation)	
I, GAVY S. Coold	representative for:
PWM Gas Servicer	do hereby certify that,
	ery Act (RCRA) and Environmental Protection Agency's July,
af all a second se	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 MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): Other (description):
Name (Original Signature): <u>Ann.</u> <u>8.</u> C	nt-
Title: <u>Savironmentel</u>	
Date: 1-12-98	

	•••••••••••••••••••••••••••••••••••••••
<u>District II</u> (505) 748-1283 <u>District II</u> (505) 748-1283 <u>District II</u> (505) 748-1283 <u>New Mexico</u> <u>New Mexico</u> <u>New Mexico</u> <u>District II</u> (505) 748-1283	CUTH C-130 Originated 4/18/95
District III(505) 748-1283Oil Conservation DivisionArtesia, NM 882102040 South Pacheco StreetDistrict III(505) 334-6178Santa Fe, New Mexico 875051000 Rio Brazos Road(505) 827-7131District IV(505) 827-7131	Submit Origina: Plus 1 Copy to appropriate District Office
REQUEST FOR APPROVAL TO ACCEPT SO	LID WASTE 98003
<ol> <li>RCRA Exempt: X Non-Exempt: DATE: Verbal Approval Received: Yes No By: D. Foost</li> <li>Management Facility Destination Trera Environmental Land Farm Address of Facility Operator H6 County Rad 5046 Bloom field NM87413 San Juan County T. Location of Material (Street Address or ULSTR) H6 County Rad 5046 Bloom field NM87413 San Juan County Address or Juan County Address of Facility Operator H6 County Rad 5046 Bloom field NM87413 San Juan County Outry Rad 5046 Bloom field NM87413 San Juan County Outry Rad 5046 Bloom field NM87413 San Juan County Address for approval to accept oilfield exempt wastes will be accompanied by a content of the material is non-hazardous and the Generator's certification of origin. No waste of will be approved. All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th He approved. All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters must certify that the wastes delivered are only th All transporters mathematic teremathematis the transporters delivered are only th</li></ol>	<ul> <li>4. Generator</li> <li><u>Basin Disposal</u></li> <li>5. Originating Site</li> <li><u>Basin Disposal</u></li> <li>6. Transporter</li> <li><u>Inland Trucking</u></li> <li>8. State</li> <li><u>New Mexico</u></li> </ul>
BRIEF DESCRIPTION OF THE MATERIAL: Solids Contaminated with hydrocarbons derived fre Oilfield waste and produced water	DECEIVED JAN 1 3 1998 ODL GON. DOV. DIST. 3
Estimated Volumeyd ³ Known Volume (to be entered by the operation of the operation	
SIGNATURE	eria/ist DATE <u>1.5-98</u>
PPROVED BY Demp & Perm TITLE Geolog 13T	DATE <u>//15/98</u>
PROVED BY TITLE eator	DATE 1/6/98

1. Generator Name and Address:	2. Destination Name:
BASIN DUSPOSAE	TIERRA ENVIRONMENTAL
#6 Rd 5046 Bloomfield NIM	Comstan Freility
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
BASIN AISPOSAL	# le Rd Soyle Bloomfield NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Solids Derivers presuce	CONTRATIONATED With hydrocactions From outrow waster And 50 water
1, <u>Timm BARNES</u> (Print Name) BASIN DISPOSAN	representative for: do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	ary Act (RCRA) and Environmental Protection Agency's July,
<b>4</b>	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents of the following document	mentation is attached (check appropriate items): Other (description):
Name (Original Signature):	Bornes

Title:

Date:

District I - (505) 393-6161 P.O. Box 1989 Hobbs: NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 District IV - (505) 827-7131	DN Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98134
1. RCRA Exempt: 🔀 Non-Exempt: 🛄	4. Generator Williams Field Service
Verbal Approval Received: 12-29-98Yes X No D. Foust.	5. Originating Site El Cedro Storage
2. Management Facility Destination Tierra Environmental Land Farm	6. Transporter Sunco/Key Energy
3. Address of Facility Operator 420 C.R. 3100 Aztec Sec Jun Count	8. State New Mexico 87410
7. Location of Material (Street Address or ULSTR) Sec-31, 7- 29N, RSW	Rie Arriba County, NM
	tompanied by necessary chemical analysis to on of origin. No waste classified hazardous by ed for transport. ht in from pigging TrK 115
wastemanagement FacilityAuthonized Agent	cale 1 Specialist DATE: 12-29-98 LEPHONE NO. 334-8894
(This space for State Use) APPROVED BY: Demp D: Foor TITLE: GOOD APPROVED BY: Mue Buch TITLE:	

1. Generator Name and Address:	2. Destination Name: TIFERA (A (D))
	TERRY WAND HARM
Williams	2. Destination Name: TIERRA LAND ARM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Sec 31, T 29N", R 5W SW114, NW14
EL CEDITO STOTAGE	
Attach list of originating sites as appropriate	RIO. ARRIBA. COUNTY. STATE. N.M.
4. Source and Description of Waste	
(andensate storace tanks	
Contraction prominge function of	sed to hold liquids brought in from
pregging Trk 113 which orig	gnates at 01170 compresson station (Jic district)
HANK (FIC 6.	
10XK	± 4278, 4279, 4280
1, Sdward J. Lucero	representative for:
(Print Name)	
Williams field Service (CAPTIZO according to the Besource Conservation and Becover	DISTRICT do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	<b>IPT</b> oilfield waste which is non-hazardous by characteristic by product identification
and the second	
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 docum	nentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis Chain of Custody	· · · ·
Name (Original Signature): - Edward O. Lucro	
Name (Original Signature): <u>- Edward Q. Lucino</u> Title: <u></u>	
Title: Juld Superintendent	
Date: 12 30 98	·
••• 	

District I - (505) 393-6161 New Mexico Form C-138 P. O. Bex 1980 nerals and Natural Resources Originated 8/8/95 Hobbs, NM 88241-1980 Energy partment District II - (505) 748-1283 Oil Conservation Division 10 70.57 811 S. First Submit Original Artesia, NM 88210 2040 South Pacheco Street Plus 1 Čopy urict III - (505) 334-6178 Santa Fe, New Mexico 87505 Rio Brazos Road DEC 2 1998 to appropriate (505) 827-7131 .c, NM 87410 District Office District IV - (505) 827-7131 Environ contel Burbau 1999 1AN - 4 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE 980/29  $\mathbb{O}$ চাজন গ্র Non-Exempt: 🔀 4. Generator Groendy Ke Transport 1. RCRA Exempt: No D. Foust Verbal Approval Received: Yes 🚺 5. Originating Site Koduction 2. Management Facility Destination Transporter ierra Environmental Landfarm 3. Address of Facility Operator 420 C.R. 3100 Aster Sen Tuen Count 8. State 87410 7. Location of Material (Street Address or ULSTR) 60/ 5 rmina 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: Petroleum Contaminated Soil's and floor dry. Generated as a result of approx. 15 gals. of Chevron gas engine oil (HDAX Low Ash SAE 15w-40) (virgin product) released due to a hose failure during trasfer at Henry Production facility. (see attached MSDS) DEC 2 2 1998 OIL CON. DIV cy Known Volume (to be entered by the operator at the end of the had) Estimated Volume -CV TITLE: ENvironmental Specialist DATE: 12-18-98 SIGNATURE: Waste Management FacilityAuthorized Agent TELEPHONE NO. 334-8894 Nobis TYPE OR PRINT NAME:. Tin (This space for State Use) ense. TITLE: Geolog 13 eu **APPROVED BY:** to locacist TITLE: 2 ionmen DATE: 12 APPROVED BY:

District (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 Energy Iviin	New Mexico erals and Natural Resource	Form C-13 Originated 8/8/c
District II - (505) 748-1283 811 S. First Artesia, NM 80210 D' trict III - (505) 334-6178 > Rio Brazos Road Ac, NM 87410 District IV - (505) 827-7131	Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Submit Origin
REQUEST FO	OR APPROVAL TO ACCEPT	SOLID WASTE 980/29
1. RCRA Exempt: 🔲 Non-Exempt:		
Verbal Approval Received: Yes	No D. Foust	4. Generator Groendy Ke Transport 5. Originating Site Henry Production
2. Management Facility Destination Tier	ra Environmental Land Farm	6. Transporter - Tierra Environmenta/
3. Address of Facility Operator 420 C.R.	3100 Azter San Juan County	8. State New Mexico 87410
7. Location of Material (Street Address or	ULSTR) 601 5. Carlton	Farmington, NM 87401
9. <u>Circle One</u> :		
Generator; one certificate per job. (B) All requests for approval to accept	t non-exempt wastes must be acco ous and the Generator's certificatio	ompanied by a certification of waste from the ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Petroleum Contaminated Soils 15 gals, of Cherron gas en	sine oil (HDAX how Ash	SAE 156-40) (Virgin product)
released due to a hose fai	lure during trasfer a	+ Henry Production tacility.
(see attached MSDS)	(i	DECEIVED DEC 2 2 1998 DILL GONL DIV.
Estimated Volume 2 cy Kr	nown Volume (to be entered by the ope	erator at the end of the haul) cy
SIGNATURE: JAIM	TITLE: ENViconnea	tal specialist DATE: 12-18-98
Waste Management FacilityAuthonz		EPHONE NO. 334-8894
(This space for State Use) APPROVED BY:	Toent TITLE: Geolog	<u>G157</u> DATE: 2
APPROVED BY:	TITLE:	DATE:

1. Generator Name and Address:	2. Destination Name:
Groendyke Transport, Inc.	Tierra Environmental Company, Inc.
2411 Delwood Avenue Durango, Colorado 81301	420 County Road 3100
(970) 247-0306	Aztec, New Mexico 87410 (505) 334-8894
I. Originating Site (name):	
lenry Production	Location of the Waste (Street address &/or ULSTR): 601 S. Carlton Avenue
501 S. Carlton Avenue	Farmington, New Mexico 87401
armington, New Mexico 87401	
505) 327-0422	· .
Attach list of originating sites as appropriate	
Source and Description of Waste etroleum contaminated soils and	floor dry. Generated as a result of approximately
J gallous of Chevron Gas Engine	011 (HDAX Low ASH SAE 15W-40) (virgin product) released
ue to a nose failure during tran	sfer at the Henry Production facility. See MSDS
Attached).	
Kevin Paadnour (of Environmental	Management, Tpc.)
(Print Name	Management, Inc.)representative for:
(Print Name) roendyke Transport, Inc.	a)
(Print Name roendyke Transport, Inc. cording to the Resource Conservation a	a) do hereby certify the nd Recovery Act (RCBA) and Environmental Protection Agency's tail
(Print Name roendyke Transport, Inc. cording to the Resource Conservation a	a)
(Print Name roendyke Transport, Inc.) cording to the Resource Conservation at 88, regulatory determination, the above	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification)
(Print Name roendyke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u>	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic
(Print Name roendyke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u>	a) do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification)
(Print Name coendyke Transport, Inc. cording to the Resource Conservation at 38, regulatory determination, the above EXEMPT oilfield waste <u>x</u>	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's Jul described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hezardous by characteristic analysis or by product identification
(Print Name roendvke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u>	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's Jul described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic
(Print Name roendyke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> that nothing has been added to the exe	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's Jul described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt of non-exempt non-hazardous waste defined above.
(Print Name roendyke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> that nothing has been added to the exe NON-EXEMPT waste only the follow	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt of non-exempt non-hazardous waste defined above.
(Print Name roendvke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> 1 that nothing has been added to the exe NON-EXEMPT waste only the follow <u>x</u> MSDS Information	do haraby cartify the nd Recovery Act (RCRA) and Environmental Protection Agency's Jul described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt or non-exempt non-hazardous waste defined above.
(Print Name roendyke Transport, Inc.) cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> 1 that nothing has been added to the exe NON-EXEMPT waste only the follow <u>x</u> MSDS Information RCRA Hazardous Waste A	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt or non-exempt non-hazardous waste defined above.
(Print Name roendyke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> d that nothing has been added to the exe NON-EXEMPT waste only the follow <u>x</u> MSDS Information	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt or non-exempt non-hazardous waste defined above.
Exempt oilfield waste	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt or non-exempt non-hazardous waste defined above.
(Print Name roendyke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste	do haraby cartify that not Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt or non-exempt non-hazardous waste defined above. Ving documentation is attached (check appropriate items): Other (description): analysis
(Print Name roendyke Transport, Inc. cording to the Resource Conservation at 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> that nothing has been added to the exe NON-EXEMPT waste only the follow <u>X</u> MSDS information RCRA Hazardous Waste A	do haraby cartify that not Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt or non-exempt non-hazardous waste defined above. Ving documentation is attached (check appropriate items): Other (description): analysis
(Print Name roendvke Transport, Inc, cording to the Resource Conservation an 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> if that nothing has been added to the exe NON-EXEMPT waste only the follow <u>x</u> MSDS Information RCRA Hazardous Waste A Chain of Custody me (Original Signature): Multiple Multi	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt of non-exempt non-hazardous waste defined above. Ving documentation is attached (check appropriate items): Other (description): analysis Max (Mat M Grawdy Tunyut M
(Print Name roendvke Transport, Inc. cording to the Resource Conservation and 88, regulatory determination, the above EXEMPT oilfield waste	do hereby certify the nd Recovery Act (RCRA) and Environmental Protection Agency's July described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt of non-exempt non-hazardous waste defined above. Ving documentation is attached (check appropriate items): Other (description): analysis Max (mat for Grand for the format of
(Print Name roendyke Transport, Inc. cording to the Resource Conservation an 88, regulatory determination, the above EXEMPT oilfield waste <u>x</u> if that nothing has been added to the exe NON-EXEMPT waste only the follow <u>x</u> MSDS Information RCRA Hazardous Waste A Chain of Custody me (Original Signature): <u>Mun</u>	do haraby cartify the nd Recovery Act (RCRA) and Environmental Protection Agency's Jul described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification ampt of non-exempt non-hazardous waste defined above. Ving documentation is attached (check appropriate items): Other (description): analysis Max (Mat M Groundet Tunyut M

CHEVE Gos Engine Ott HDAX LOW ASH SAE 15W-40

5mp/m8 misi DSHA TMA

ADDITIVES

#### < 25.0%

ZINC ALKARYL DITHIOPHOSPHATE Chomicel Name: ZINC ALKARYL DITHIOPHOSPHATE CASS4261675 > 1.0K

YEV - Threshold Limit ValueTWA - Time Weighted AverageSTEL - Short-term Exposure LimitTPD - Threshold Planning QuantityRQ - Repartable QuantityCPS - CUSA Product CodeCC - Chevron Chemical CompanyCAS - Chemical Abstract Service Number

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EVE: This substance is not expected to cause prolonged or significant eye irritation. Skin: This substance is not expected to cause prolonged or significant skin irritation. The systemic toxicity of this substance has not been determined. However, it should be gratically one-toxic to internal

irritation. The systemic toxicity of inte substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. INGESTION:

The systemic laxicity of this substance has not been determined. However, it should be practically non-taxic to internal organs if swallowed. INHALATION:

The systemic invicity of this substance has not been determined. However, it should be prectically non-toxic to internal organs if inhalsd.

4. FORST ALD MEASURES

EYE:

No first aid procedures are required. However, as a precention flush eyes with fresh water for 15 minutes. Remove contact lenses if worn, SKIN:

No first old procedures are required. As a procession, wash skin Thoroughly with soap and water. Remove and wesh contaminated clothing. INGESTION:

If availoned, give mater or milk to drink and telephone for nedical advice. Consult madical paraonnel before inducing vomifing. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment contar or hospital. NetHATION:

Since this material is not expected to be an immediate inhulphion problem, no first aid procedures are required.

Revision Number: 1 Revision Date: D4/01/93 RSDS Number: D04997 NDA - No Oste Available NA - Not Applicable 1-405-282-8533

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#### E. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES FLASH PDINT: ICDC) 4D1F (205C) Min. AUTOIGNITION: NOA FLAMMABLIJTY LIMITS (% by volume in sir): Lower: NA Upper: RA EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water Fop MIPA RATINGS: Health 1; Flammability 1; Reactivity 0. Fire FIGHTING INSTRUCTIONS: For fires involving this material, so not enter any enclosed or confined fire apace without proper protective equipment, including self-contained breathing apparatus. COMBUSION PRODUCTS: Normal combustion forms tarbon diexide, water vepor and may produce exides

of sulfur, nitrogen and phospherous.

#### 6. ACCIDENTAL BELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (74 hr): (800)424-8300 or (202)483-7616 ACCIDENTAL RELEASE MEASURES: Stop the source of the tesh or reteree. Clean up releases as soon as pessible. Contain liquid to prevent further contemination of soil.

surface eater or groundhater. Clean up small spills using appropriate techniques such as suchent meterials or pumping. Where tessible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

HANDLING AND STORAGE

BC NO? weld, hast or drill container. Regitive may ignite with explosive violance if hasted sufficiently. CAUTION: Do not use pressure to empty drum or drum may regive with explosive force.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT EVE/FACE PROTECTION: No special sys protection is usually necessary. SKIN PROTECTION: No special skin protection is usually necessary. Av. id protonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing. RESPIRATORY PROTECTION:

Revision Numbers 1 Revision Date: 04/01/93 MSD5 Number: 004987 NDA - No Deta Available NA - Not April (cable CHEVR Ges Engine Dil + DAX Low ASH SAE 158-40

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We special respiratory protection is normally required, However, if operating conditions craste high afroarne concentrations, the use of an approved respirator is recommended. ENGINEERING CONTROLS: Use adequate ventilation to keep the stroothe concentrations of this material balow the recommended exposure standard.

9. PHYSICAL AND CHEMICAS PROPERTIES

PHYSICAL DESCRIPTI Dark ambar itau	
pH:	NOA
VAPOR PRESSURE:	NA
VAPOR DENSITY	
(#]R=1):	MA
BOILING POINT	NA
FREEZING POINT;	NDA
MELTING POINT:	NA.
SOLUBILITY:	Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY:	0.88 @ 15.6/15.6(
DENSITY	NDA
EVAPORATION RATE:	RA
VISCOSITY:	13.8 cSt @ 300C (Min.)
PERCENT VOLATILE	
(VOL):	NA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: NDA CHEMICAL STABILITY: Stable, CONDITIONS TO AVOID: No data musilable, INCOMPATIBILITY WITH OTHER MATERIALS: May react with strong chidizing agents, such at chlorates, nitratus, perceides, etc. HAZARDOUS POLYMERIZATION: Polymerizetion will not occur.

11. TOXICOLOGICAL INFORMATION

EVE EFFECTS: No product lowicology data available. The hezerol evaluation was based on data on the components. SKIN EffECTS: No product toxicology data available. The hazard evaluation was based on data on the components.

Revision Number: 1 Revision Date: 04/01/93 MSDS Number: 004887 NDA - No Date Available NA - Not Applicable CHEVE Gas Engine OII HOAX Low ASH SAE 15H-40

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ACUTE DRAL EFFECTS:

No product textcology data available. The hazard evaluation was based on data on the components.

ACUTE SHHALATION EFFECTS:

No product textcology date eveliable. The hazard evaluation was based on date on the components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains perpleum base ails which may be refined by various precesses including severe solvent extraction, severe hydrocracking, or severe hydrocracking. Nome of the oils requires 6 cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Taricology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (JARC) set carcinogenis to humans (Group 1), probably carcinogenis to humans (Group 2A), or possibly carcinogenis to humans (Group 28).

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

12. ECOLOGICAL INFORMATION

#### ECOTOXICITY:

No data avaitable.

ENVIRONMENTAL FATE: This majorial is not expected to present ony environmental problems other then those espectated with oil opills.

13. DISPOSAL CONSTDERATIONS

DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping attustions. Consult 490FR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or guantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A MAZARDOUS NATERIAL BY THE

Pevision Number: 1 Revision Date: 04/01/93 MSD5 Number: 004987 NDA - No Data Available NA - Not Applicable

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FEBERAL DOT

DOT HAZARD CEASS: NOT APPLICABLE DDT IDENTIFICATION NUMBER: NOT APPLICABLE DDT PACKING GROUP: NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:	2. Deleyed (Chronic) Health Effects: 3. Fire Hezerd: 4. Sudden Release of Pressure Hezerd:	NO NO NO NO
	C. HUMLETVIJY HEEDERAL	84·2

REGULATORY LISTS SEARCHED!

01=SARA 313	11= <b>NJ</b> RTB	21=TSCA Soct 4(0)
02=MASS RTK	12=CEACLA 307.4	22=TSCA Sect 5(a)(a)(1)
O3=NTP Carcinogen	13-MN RTK	28=75CA Soct 6
04=CA Prop 65-Carcin	14= ACGIH TWA	24=TSCA Seci 12(b)
DS+CA Prep 65-Rears Tok	15=ACGIH STEL	25=TACA Seci B(a)
OG=1ARC Grown 1	16=ACGIH CELC TLV	ZE+75CA Sect B(d)
D7=1ARC Group 2A	17=OSHA TWA	28=Canadien Wibils
DENJARC Group 28	16-OSHA STEL	29=05HA CELLING
09= SARA 302/804	19=Chevron TWA	SD=Chevron STEL
10=PA RTK	20-EPA Cercinopen	

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

ZINC ALKARYL DITHIOPHOSPHATE to found on lists: DI,11, DISTILLATES, HYDROTREATED HEAVY PARAFFINIC to found on lists: 14,15,17.

16. OTHER INFORMATION

NFPA RATINGS: Momith 1; fimmubility 1; Resciivity 0; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines ar published evaluations prepared by the National fire Protoction Association (NFPA) or the National Paint and Costing Association (for HMIS ratings).

REVISION STATEMENT:

This revision updates Section 1 (Product Identification), Section 5 (fire Fighting Measurer) and Section 7 (Storage, Mendiling and Repairing) and revises the MSDS to comply with the ARSJ 2400.1 Stendard.

Revision Number: 3 Revision Date: 04/01/98 MSDS Number: 004987 NDA - No Date Available NA - Not Applicable

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

Revision Number: 1 Revision Date: 04/01/83 MSDS Number: 004987 NDA - No Date Aveilable NA - Not Applicuble Meterial Safety Data Sheet Material Safety Data Sheet Material Safety Data Sheet Material Safety Data Sheet

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Page 1 of 7

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Gos Engine 011 HOAX Low ASH SAE 154-40

PRODUCT NUNBER(S): CPS232381 CPS238080

COMPANY IDENTIFICATION

#### ENERGENCY TELEPHONE NUMBERS

Chevron USA Products Company Environmental, Safety, and Health 575 Market St. San Francisco, CA 94105-2856

HEALTH 124 ht): (800)231-0623 or (510)231-0623 (Jnternational) TRANSPORTATION (24 ht): CHEMIREC (800)424-9300 or (202)483-7616

#### PRODUCT INFORMATION: (809)822-5623 MSDS Requests (800)562-3835 Technics)

2. COMPOSITION/INFORMATION ON INGREDIENTS

#### COMPOSITION CONNENT:

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

This product fits the ACGH definition for minoral bill mist. The ACGH TLV is 5 mg/m3, the DSMA PEL is 5 mg/m3.

The propertion compositions are given to allow for the various ranges of the components present in the whole product and may not equal 1908.

100.0 % CHEVRON Ges Engine 011 HDAX Low ASH SAE 15W-40

#### CONTAINING

COMPONENTS ANDUNT LIMBT/QTV AGENCY/TYPE

HYDROTREATED DIST., HVY PARA Chamical Name: DISTILLATES, HVDROTREATED HEAVY PARAFFINIC C45647+2547 > 75.0% Sag/m3 mist ACOIN TWA 10mp/m3 mist ACOIN STEL

Revision Number: 1 Revision Date: 04/01/93 NSDS Number: 004982 NDA - No Date Aveilable NA - Not Applicable

Prepared According to the OSHA Hexard Communication Standard (29 CFR 1910.1200) by the Toxicology and Health Pisk Assessment Unit, Chevron Research and Technology Campeny, PO Box 4054, Richmond, CA 84804

District I (505) 393-6161 P. O. Box-1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pittrict III - (505) 334-6178 New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 District IV - (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98/21
1. RCRA Exempt: Non-Exempt:	4. Generator Three River Trucking
Verbal Approval Received: 1//30/98 Yes 🖾 No 🛄 D. Foust	5. Originating Site $CR5500 \notin$
2. Management Facility Destination	6. Transporter McForland Trucking
3. Address of Facility Operator 420 C.R. 3100 Aztec, Sunt, Juan County	8. State New Mexico
1. Location of Material (Street Address or ULSTR) Intersection of CR. 5500 E Huy 64	San Juan County. New Mexico
a. <u>Circie One</u> :	
<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 accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL: <i>Produced Water and Parafin Spilled from Wircked M</i> </li> </ul>	mpanied by necessary cnemical analysis to a of origin. No waste classified hazardous by for transport.
REC Dec ODL C	EIVED 1 1998 DIV.
	97. B
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haui) 2 cy
SIGNATURE: Waste Management FacilityAuthonized Agent TYPE OR PRINT NAME: Tim Nabis TEL	L <u>Specialis</u> date: <u>11-30-98</u> EPHONE NO. <u>334-8874</u>
(This space for State Use)	
APPROVED BY: Denny S. Four TITLE: Geolog	15T DATE: 12/1/98
APPROVED BY: Came Busch TITLE: Ceolo	<u>sit</u> DATE 2/1198

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	OF WASTE STAT	rus
1. Generator Neme and Agarage	2. Destingtion Name:	a Languyyi ( , , tanta) - ta - ann gitan ta a atabia ann <del>dar ann ann dan garana ann dar gara</del> ann ann ann ann ann
Three Rivers Trucking, Inc	Tierna Environmental	Land Farm
603 E. Murray DRive	420 CR 3100	
Farmington, NM 8740;	Artec, Nm 874	ת
3. Originating Site (narno);	A REAL PROPERTY AND A REAL	*
	Location of the Waste (Street	atwaress afor ULSTRI:
Intersection of Huy 64 + CR 550	vacuum truck	
		1
Attenti list of originating cites as espropriate	ՠֈֈֈՠՠֈՠ֍ՠ՟ՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠ	and in the second second states and the second s
4. Source and Description of Weste		
produced water from recount	. In vek which had	,
urecked.		
		1
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Cindy Finkett		tepresentative for:
Cindy Finkett (Prim Name)	ger gen privation and a second data and a second state in the second data and the second second second second s	1960 1999 1999 1999 1999 1999 1999 1999
Three Kivers I Ruckma, Inc		do hereby certify that,
according to the Resource Conservation and Reco 1988, regulatory determination, the shove matcribe	vory Act (RCRA) and Echilianstante of vinista is: (Check appropriate ducation	d Protection Agency's July,
		, ,
EXEMPT oilfield waste NON-EX. enalysis	EMPT cilfield wasta which is non-h or by product identification	azardous by characteristic
	4.*	
and that nothing has been added to the exempt or i	non-exempt non-hazardous waste o	lefined above.
For NON-EXEMPT weste only the following doc	umentation is strached (check app	opriate items):
MSDS Information	Other (descriptio	n):
RCRA Hazardous Waste Analysis		
		and a second
lame (Original Signature): (mol)	hell	
itle: Sec-Treas	· .	•
	n a staning to sping the stand and a st	
Date: 11-30-98		

District I - (505) 393-6161		New N	<b>Mexico</b>			Form C-138
P. O. Box 1980 Hobbs, NM 88241-1980	Energy .	erals and Natu		s L _ Jartn	nent	Originated 8/8/95
<u>District II</u> - (505) 748-1283 311 S. First	07	Oil Conserva		•	•	
Artesia, NM 88210		2040 South P	acheco Street			Submit Original
<u>rict III</u> - (505) 334-6178		Santa Fe, New	Mexico 87505			Plus 1 Copy to appropriate
⊂ Rio Brazos Road Lc, NM 87410		(505) 82	27-7131		•	District Office
District IV - (505) 827-7131						
	REQUEST	FOR APPROVAL	TO ACCEPT §	SOLID WAS	STE 98	3128
1, RCRA Exempt:	Non-Exempt	• 🖸 👘		4. Gener		NEEGA
Verbal Approval Rece		s 🕅 12/11/98NO 🗖	D. Foust	5. Origin		Juan Gas Plant
2. Management Facility I	Destination	rra Environmento	1 Landfarm			Industrial
3. Address of Facility Op	perator 420 C.k	2. 3100 Aztec, 50	N JUAN County			0 87410
7. Location of Material (S	Street Address	or ULSTR) 6/ C.R.	4900	Bloomfie	1d, NM 87	1413
9. <u>Circle One</u> :						
Generator; one ce B. All requests for a	ertificate per job pproval to acce rial is not-hazar	pt non-exempt waste dous and the Genera	es must be accor	mpanied by r	necessary cher	nical analysis to
All transporters must c			hose consigned	for transport.		
BRIEF DESCRIPTION OF		<u></u>			· · · · · · · · · · · · · · · · · · ·	
Sulfa Check	K System	- H25 trea	iting/scru	ubbing li	guid	· · ·
Champion -			·	$\sim$	~	
					1111	1VED 2 1998
					011 CO	
					DIST	63
Estimated Volume	bbls of 1	<b>Known Volume</b> (to be e	ntered by the oper	rator at the en	d of the haul)	cy
	agement FacilityAutho	nized Agent	E: Environmen	tal Spec	alist DATE: /	2-15-98
TYPE OR PRINT NAME:	Tim N	obis	TELE	EPHONE NO.	334-88	94
(This space for State U	se)		ś ¹ :j.	. <u></u>		
APPROVED BY: De	my 3.7	tous TITL	E <u>Geolog</u>	137	DATE: <u>/</u>	2/22/98
APPROVED BY:	venio P	Dapel TITL	E:	·· <u>·····</u> ····	DATE:	2.

#### **CERTIFICATE OF WASTE STATUS** 1. Generator Name and Address: Destination Name: 2. Conoco Inc.-NG&GP Tierra Environmental Co., Inc. San Juan Gas Plant Tierra Land Farm Faclity 61 CR 4900 420 CR 3100 Bloomfield, NM 87413 Aztec, San Juan County NM 87410 3. Originating Site (name): Location of the Waste (Street address &/or ULSTR): Same As Above (Generator) Attach list of originating sites as appropriate

4. Source and Description of Waste

Sulfa Check System - H2S treating/scrubbing liquid Champion - Gas Treat 102

For the month of December

, <u>Richard R. Theander</u>

(Print Name)

do hereby certify that, Conoco, Inc. NG&GP, San Juan Gas Plant 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)

xx EXEMPT oilfield waste

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

representative for:

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): Other (description):

- X MSDS Information
- ____ RCRA Hazardous Waste Analysis
- Chain of Custody

12-10-98

Richardh be transported #2 above on 12-15-98, Tichard F Name (Original Signature): 7

Title: Process Foreman

Date:

<u>trict.1 - (505).393-6161</u> New Mexico	
	nated 3/8/95
S.First Oil Conservation Division	۰.
	mit Originai Plus 1 Copy
) Rio Brazos Road (505) 827-7131 DFC 0 1998	appropriate
c, NM 87410 (505) 827-7131 Junental	istrict Office
	be an
REQUEST FOR APPROVALITO ACCEPTISOLID WASTE 98104	
1. RCRA Exempt: Non-Exempt: DEC - 7 199 4. Generator Four Four F	مد
Verbal Approval Received: Yes New New Contraction Contractions Site Navajo Dan H	21 OF
2. Management Facility Destination Tierra Environmental Landfarm 6. Transporter Four - Four -	Inc.
3. Address of Facility Operator, 420 C.R. 3100 Aztec, Sun Juan County 8. State New Mexico	
7. Location of Material (Street Address or ULSTR) 1/2 mile South of 1 Navajo Dan Huy 539 Jan Juan County, New Me	Xico
9. <u>Circle One</u> :	
A. All requests for approval to accept olifield exempt wastes will be accompanied by a certification of waste fr	om the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical anal PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazard	
listing or testing will be approved.	ous by
All transporters must certify the wastes delivered are only those consigned for transport.	· · ·
BRIEF DESCRIPTION OF MATERIAL:	
Hydrocarbon Contaminated Soil from an overturned field Service truck	<.
	·
Includes diesel, new and used DEGEIVED	
lube oil, UN DEC 1 1998	
OIL CON. DIV.	
	, <b>.</b>
	-
	۰.
Estimated Volume	cv
SIGNATURE: 21/23/ TITLE: Louvissamental Specialist. DATE: 11/23/	198
Waste Management Hacility Authonized Agent	
TYPE OR PRINT NAME: Nobis TELEPHONE NO. 334-8894	
	· · · · · · · · · · · · · · · · · · ·
(This space for State Use)	
APPROVED BY: Demy 2. Four TITLE: Geolog is DATE: 12/1/	<i>i</i> 8
APPROVED BY: Mantyme Chils TITLE: Env Geologist DATE: 12/3/5	'8

District I - (505) 93-6161 New Mexico	
HODDS, NM 88241-1980 Energy minerals and Natural Resource	CS Lienartment Originated 3/8/9
Dispice II - (505) 748-1283 Oil Conservation Divisio	A
811 S. First On Conscivation Division Artesia, NM 88210 2040 South Pacheco Street	Submit Origin:
D'-trict III - (505) 334-6178 Santa Fe, New Mexico 87505	Plus I Čop
Rio Brazos Road (505) 827-7131	to appropriat District Offic
District IV - (505) 827-7131	
างการการการการการการการการการการการการการก	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98104
1. RCRA Exempt: 🛄 Non-Exempt: 🕅	4. Generator Four Four Foc.
Verbal Approval Received: Yes No	5. Originating Site Varajo Dan Hwy 539
2. Management Facility Destination Tierra Environmental Landfarm	
3. Address of Facility Operator 420 C.R. 3100 Aztec, Sun Juan County	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 1/2 mile South of Navajo Dan Huy.539	San Juan County, New Mexico
9. <u>Circle One</u> :	
<ul> <li>All requests for approval to accept oilfield exempt wastes will be acc Generator; one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be acc PROVE the material is not-hazardous and the Generator's certification listing extention will be approved.</li> </ul>	ompanied by necessary chemical analysis to
listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigne	d for transport.
BRIEF DESCRIPTION OF MATERIAL: Hydrocarbon Contaminuted Soil From an overtu	orned field Service truck.
Turket	
Includes dresel, new and D	ECEIVEN
used lube oil	
	A DEC 1 1998
0	IL CON. DIV.
	DIST. 3
Estimated Volume Cy Known Volume (to be entered by the op	erator at the end of the haul)
SIGNATURE: Waste Management Facility Authonzed Agent	14/ Specializt. DATE: 11/23/98
	EPHONE NO. 334-8894
(This space for State Use)	
APPROVED BY: Demy & temp TITLE: Geol	og ist DATE: 12/1/98
	DATE:

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:			
Four-Four Inc.	Tierra Environmental Co. Inc.			
3000 East Bloomfield Highway	420 County Road 3100			
Farmington, NM 87401	Aztec, NM 87410			
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):			
1/2 mile south of the Navajo Dam	Tierra Environmental Co. Inc.			
State Route 539	420 County Road 3100			
Attach list of originating sites as appropriate	Aztec, NM 87410			
4. Source and Description of Waste				
Hydrocarbon contaminated soil from an overtur	Imed field service truck			
N. N. H. H.				
I, WILE HALL	representative for:			
1. Mike Hall Four-Four Inc.	do hereby certify that, according			
	RCRA) and Environmental Protection Agency's July, 1998, regulatory			
determination, the above-described waste is: (Check				
EXEMPT oilfield waste X NON-EX	EXEMPT oilfield waste which is non-hazardous by characteristic			
	nalysis or by product identification			
and	alysis of by product identification			
and that nothing has been added to the exempt or n	non-exempt non-hazardous waste defined above.			
· · ·				
For NON-EXEMPT waste only the following docume	nentation is attached (check appropriate items):			
MSDS Information	XOther (description): Laboratory Results			
RCRA Hazardous Waste A				
	Analysis			
	Analysis			
Chain of Custody	Analysis			
Chain of Custody	Analysis			
Chain of Custody	Analysis			
Chain of Custody				
Name (Original Signature):				
Name (Original Signature): Title:				
Name (Original Signature):				
Name (Original Signature): Title: <u>Geneval Manager</u>				

OFF: (505) 325-5667



LAB: (505) 325-1556

#### ANALYTICAL REPORT

**Date:** 20-Nov-98

Client: Work Order:	On Site Technol 9810084	ogies, Limited Partnership	-		9, Delusso Loop Rd Spill Case" Stockpile 6pt. Comp		
Lab ID: Project:	9810084-01A 4-1532	Matrix: SOIL	Collection Date COC Record	e: 10/27/9			
Parameter		Result POL	Oual Units	DF	Date Analyzed		

	Kegun	IQL Q			Date Analyzeu
DIESEL RANGE ORGANICS	SI	W8015		-	Analyst: HR
T/R Hydrocarbons: C10-C28	16000	250	mg/Kg	10	11/10/98
GASOLINE RANGE ORGANICS	SI	W8015			Analyst: DC
T/R Hydrocarbons: C6-C10	440	45	mg/Kg	250	10/30/98
BTEX	SI	W8020A			Analyst: DC
Benzene	<b>410</b>	250	µg/Kg	250	10/29/98
Toluene	4900	500	µg/Kg	250	10/29/98
Ethylbenzene	4600	250	µg/Kg	250	10/29/98
m,p-Xylene	22000	500	µg/Kg	250	10/29/98
o-Xylene	9100	250	µg/Kg	250	10/29/90

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

P.O. BOX 2606 • FARMINGTON, NM 87499

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.	MSAI Group: 24652
612 E Murray Drive	Date Reported: 11/11/98
Farmington, NM 87401	Discard Date: 12/11/98
- · ·	Date Submitted: 10/29/98
Attn: Mr. David Cox	Date Sampled: 10/27/98
Project: Solid Analysis	Collected by:
	Purchase Order:
mple TD: 9810084-01B	Project No.: 9810084

Sample ID: 9810084-Matrix: Soil

S.R.539, Delusso Loop Road Spill "Worst Case" Stockpile 6pt. Comp.

nalytical Report

88859

(H)

MSAI Sample:

Test	Analysis	Results as Received	Units	Dilution Factor		imit of antitation
	Mercury by CVAA, TCLP, 7470 Method: SW-846 7470	ND	 mg/l	1		0.0005
0392N	Mercury Prep CVAA, TCLP, 7470 Method: SW-846 7470	Batch. w269		1		
0393T	Flame/hrICP Prep, TCLP, 3010A Method: SW-846 3010A	Batch. w738		1		
13004	Metals by hrICP, TCLP (UTS) Method: SW-846 6010A					
	Arsenic	ND	mg/l	1		0.08
	Barium	1.02	mg/l	1		1.00
	Cadmium	ND	mg/l	1		0.005
	Chromium	ND	mg/l	1		0.03
	Lead	ND	mg/l	1		0.08
	Selenium	ND	mg/l	1		0.08
	Silver	ND	mg/l	1		0.02
0395	Corrosivity, sw, 9045C Method: SW-846 9045C	7.88	Std. Units	1		0.05
0542	Ignitability, sw Method: MSAI IN HOUSE					
	Ignitable upon water contact	Negative	Degrees F	1		
	Ignitable by friction	Negative	Degrees F	1		
	Spontaneously combusts in air	Negative	Degrees F	1		
	Ignitability	>146	Degrees F	1	(1)	50
0947J	TCLP Extraction, hrICP, Metals Method: SW-846 1311	100	% solids	1		0.001

Corporate Office: 1645 West 2200 South • Salt Lake City, Utah 84119 801-973-0050 • 1-800-973-6724 (MSAI) • FAX 801-972-6278 e-mail: service@msailabs.com



Mountain	<b>States</b>	Analy	/tical,	Inc.

Page

2

The Quality SolutionOn Site Technologies, Ltd.MSAI Sample: 88859Sample ID: 9810084-01BMSAI Group: 24652

Test	Analysis	Results as Received	Units	Dilution Factor	Limit of Quantitation
	TCLP Extraction, Mercury, 1311 Method: SW-846 1311	100	% Solids	1	0.001
	Reactivity, (Cyanide & Sulfide)sw Method: SW-846 CHAPTER 7.3				
	Cyanide (Reactive)	ND	mg/kg	1	55
	Sulfide (reactive)	ND	mg/kg	1	120

(1) Sample did not ignite up to 146 F.

ND - Not detected at the Limit of Quantitation.

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

> Respectfully Submitted, Reviewed and Approved by:

Elsose

Rolf E. Larsen Project Manager



OFF: (505) 325-5667



LAB: (505) 325-1556

November 20, 1998

Cindy Gray On Site Technologies, Limited Partnership 612 E. Murray Drive P.O. Box 2606 Farmington, NM 87499 TEL: (505) 325-5667 FAX (505) 327-1496

RE: 4-1532

Order No.: 9810084

Dear Cindy Gray,

On Site Technologies, LTD. received 1 sample on 10/28/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests: AQPREP TOTAL METALS: ICP (SW3010A) BTEX (SW8020A) CORROSIVITY by pH (SW9045B) CYANIDE, Reactive (SW7.3.3.2) Diesel Range Organics (SW8015) Gasoline Range Organics (SW8015) ICP METALS, TCLP Leached (SW1311/6010A) IGNITABILITY (SW1010) MERCURY, TCLP Leached (SW7470) SULFIDE, Reactive (SW7.3.4.2) TCLP Sample Prep (Metals) (SW1311)

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

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

Sincerely,

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

#### On Site Technologies, LTD.

Date: 20-Nov-98

CLIENT:	On Site Technologies, Limited Partnership	
Project:	4-1532	CASE NARRATIVE
Lab Order:	9810084	

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

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

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

Date: 20-Nov-98

Qual

a

CLIENT: Work Order: Project:	On Site Technologies, Limited Partnership 9810084 4-1532						QC SUMMARY REPORT Method Blank	
Sample ID: MB1 Client ID:		Batch ID: GC-2_981110 9810084		SW8015 GC-2_981110A	Units: mg/Kg A	Analysis Date SeqNo:	e 11/10/98 8575	Prep Date: 11/5/98

1 D

PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Result Analyte T/R Hydrocarbons: C10-C28 ND 25

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 20-Nov-98

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9810084
Project:	4-1532

### **QC SUMMARY REPORT**

Sample Duplicate

Sample ID: 9810085-04AD	Batch ID: GC-2_981110	Test Code	: SW8015	Units: mg/Kg		Analysis	5 Date 11/1	0/98	Prep Da	ate: 11/10/98	;
Client ID:	9810084	Run ID:	GC-2_981110	A		SeqNo:	8598				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	1026	25	0	0	0.0%	0	0	1092	6.3%	15	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 20-Nov-98

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9810084
Project:	4-1532

### **QC SUMMARY REPORT**

Sample Matrix Spike

Sample ID: 9810090-01AMS	Batch ID: GC-2_981110	Test Code	: SW8015	Units: mg/Kg		Analysis	Date 11/1	0/98	Prep D	ate: 11/10/98	
Client ID:	9810084	Run ID:	GC-2_981110	A		SeqNo:	8599				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	465.3	25	502	0	92.7%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 20-Nov-98

# CLIENT:On Site Technologies, Limited PartnershipWork Order:9810084Project:4-1532

### **QC SUMMARY REPORT**

Laboratory Control Spike - generic

Sample ID: LCS Soil	Batch ID: GC-2_981110	Test Code	: SW8015	Units: mg/Kg		Analysis	Date 11/1	0/98	Prep Da	ate: 11/5/98	
Client ID:	9810084	Run ID:	GC-2_981110	A		SeqNo:	8577				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	514.8	25	501.9	0	102.6%	70	130				

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 20-Nov-98

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9810084
Project:	4-1532

### QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 DRO_98110	Batch ID: GC-2_981110	Test Code:	SW8015	Units: mg/Kg		Analysis	s Date 11/1	0/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-2_981110	A		SeqNo:	8576				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	434	25	501.9	0	<b>8</b> 6.5%	85	115				
Sample ID: CCV2 DRO_98110	Batch ID: GC-2_981110	Test Code:	SW8015	Units: mg/Kg		Analysis	5 Date 11/1	0/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-2_981110	A		SeqNo:	8600				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	428.2	25	501.9	0	85.3%	85	115				
Sample ID: CCV3 DRO_98110	Batch ID: GC-2_981110	Test Code:	SW8015	Units: mg/Kg		Analysis	Date 11/1	0/98	Prep Da	ite:	,
Client ID:	9810084	Run ID:	GC-2_981110	Α		SeqNo:	8601				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
T/R Hydrocarbons: C10-C28	460.4	25	501.9	0	91.7%	85	115				
Sample ID: CCV4 DRO_98110	Batch ID: GC-2_981110	Test Code:	SW8015	Units: mg/Kg		Analysis	Date 11/1	0/98	Prep Da	ate: 11/10/98	
Client ID:	9810084	Run ID:	GC-2_981110	A		SeqNo:	8602	·			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	451.4	25	502	0	89.9%	85	115				

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

l of l

Date: 20-Nov-98

CLIENT:On Site Technologies, Limited PartnershipWork Order:9810084Project:4-1532

### **QC SUMMARY REPORT**

Sample Matrix Spike

Sample ID: 9810080-01AMS	Batch ID: GC-1_981030	Test Code:	SW8015	Units: mg/Kg		Analysis	s Date 10/3	0/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981030	A		SeqNo:	8292				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.714	0.18	1.801	0	95.2%	52	123				
Sample ID: 9810080-01AMSD	Batch ID: GC-1_981030	Test Code:	SW8015	Units: mg/Kg		Analysis	Date 10/3	Ö/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981030	A		SeqNo:	8293		·		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
•											

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 20-Nov-98

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9810084
Project:	4-1532

### **QC SUMMARY REPORT**

Laboratory Control Spike - generic

Sample ID: LCS Soil	Batch ID: GC-1_981030	Test Code	: SW8015	Units: mg/Kg	_	Analysis	Date 10/3	0/98	Prep D	ate:	<u> </u>
Client ID:	9810084	Run ID:	GC-1_981030	A		<ul> <li>SeqNo:</li> </ul>	8290				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.733	0.18	1.801	0	96.2%	52	123				

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

l of l

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9810084
Project:	4-1532

### **QC SUMMARY REPORT**

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0613	Batch ID: GC-1_981030	Test Code:	SW8015	Unițs: mg/Kg		Analysis	s Date 10/3	0/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981030	A		SeqNo:	8289				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.89	0.18	1.801	0	104.9%	85	115				
Trifluorotoluene	.0801	0	0.08	0	100.1%	70	130				
Sample ID: CCV2 QC0613	Batch ID: GC-1_981030	Test Code:	SW8015	Units: mg/Kg		Analysis	5 Date 10/3	0/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981030	A		SeqNo:	8304				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.941	0.18	1.801	0	107.8%	85	115	·····			
Trifluorotoluene	.0811	0	0.08	0	101.4%	70	130		·		
Sample ID: CCV3 QC0613	Batch ID: GC-1_981030	Test Code:	SW8015	Units: mg/Kg		Analysis	Date 10/3	0/98	Prep Da	ite:	
Client ID:	9810084	Run ID:	GC-1_981030	A		SeqNo:	8305				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.944	0.18	1.801	0	107.9%	85	115				
Trifluorotoluene	.0882	0	0.08	0	110.3%	70	130				
Sample ID: CCV4 QC0613	Batch ID: GC-1_981030	Test Code:	SW8015	Units: mg/Kg		Analysis	Date 10/3	0/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981030	A		SeqNo:	8306				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	_. %RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.973	0.18	1.801	0	109.5%	85	115				
Trifluorotoluene	.0905	0	0.08	0	113.1%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

#### CLIENT: On Site Technologies, Limited Partnership

Work Order: 9810084

**Project:** 4-1532

### **QC SUMMARY REPORT**

Continuing Calibration Verification Standard

Sample ID: CCV5 QC0613	Batch ID: GC-1_981030	Test Code	: SW8015	Units: mg/Kg		Analysis	s Date 10/3	0/98	Prep Da	ite:	
Client ID:	9810084	Run ID:	GC-1_981030	A .		SeqNo:	8310				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.954	0.18	1.801	0	108.5%	85	115				
Trifluorotoluene	.0886	0	0.08	0	110.8%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** 

On Site Technologies, Limited Partnership

Work Order: Project:	9810084 4-1532								QC SU.		Method 3	
Sample ID: MB1		Batch ID: GC-1_981028	Test Code:	SW8020A	Units: µg/Kg		Analysis	s Date 10/2	28/98	Prep D	ate:	
Client ID:		9810084	Run ID:	GC-1_981028	BA		SeqNo:	8187				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	1									
Ethylbenzene		ND	1									
m,p-Xylene		ND	2									
o-Xylene		.5945	1									J
Toluene		ND	2									
Sample ID: MB1		Batch ID: GC-1_981029	Test Code:	SW8020A	Units: µg/Kg		Analysis	Date 10/2	9/98	Prep Da	ate:	· · · ·
Client ID:		9810084	Run ID:	GC-1_981029	A		SeqNo:	. 8231				
Analyte .		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	1		_							
Ethylbenzene		ND	1 ·									
m,p-Xylene		ND	2									
o-Xylene		ND	1									
Toluene		.7155	2									J

Date: 20-Nov-98

QC SUMMARY REPORT

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

I of I

Date: 20-Nov-98

**QC SUMMARY REPORT** 

Work Order:         9810084           Project:         4-1532									Sampl	le Matrix	Spike
Sample ID: 9810072-01AMS	Batch ID: GC-1_981028	Test Code:	SW8020A	Units: µg/Kg		Analysi	s Date 10/2	8/98	Prep D	ate:	
Client ID:	9810084	Run ID:	GC-1_981028	BA		SeqNo:	8188				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	60.53	1	60	0	100.9%	71	116				
Ethylbenzene	59.86	1	60	0.5984	98.8%	68	120				
m,p-Xylene	120.9	2	120	3.002	98.3%	60	121				
o-Xylene	59.58	1	60	1.486	96.8%	69	124				
Toluene	62.02	2	60	1.835	100.3%	62	128				
Sample ID: 9810072-01AMSD	Batch ID: GC-1_981028	Test Code:	SW8020A	Units: µg/Kg		Analysis	s Date 10/2	8/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981028	BA		SeqNo:	. 8189				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	59.74	1	60	0	99.6%	71	116	60.53	1.3%	15	
Ethylbenzene	58.79	1	60	0.5984	97.0%	68	120	59.86	1.8%	15	
m,p-Xylene	119	2	120	3.002	96.7%	60	121	120.9	1.6%	15	
o-Xylene	58.85	1	60	1.486	95.6%	69	124	59.58	1.2%	15	
Toluene	61.31	2	60	1.835	99.1%	62	128	62.02	1.2%	15	
Sample ID: 9810080-01AMS	Batch ID: GC-1_981029	Test Code:	SW8020A	Units: µg/Kg		Analysis	5 Date 10/2	9/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981029	A		SeqNo:	8232				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	54.94	1	60	0	91.6%	71	116		•		
Ethylbenzene	52.69	1	60	0	87.8%	68	120				
n,p-Xylene	99.51	2	120	0.9785	82.1%	60	121				
o-Xylene	60.45	1	60	0.507	99.9%	69	124				
Toluene	55.82	2	60	0	93.0%	62	128				

CLIENT:On Site Technologies, Limited PartnershipWork Order:9810084Project:4-1532

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

#### CLIENT: On Site Technologies, Limited Partnership

Work Order: 9810084

#### **Project:** 4-1532

#### **QC SUMMARY REPORT**

Sample Matrix Spike Duplicate

Sample ID: 9810080-01AMSD	Batch ID: GC-1_981029	Test Code	: SW8020A	Units: µg/Kg		Analysis	s Date 10/2	9/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981029	A		SeqNo:	8233				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.9	1	60	0	88.2%	71	116	54.94	3.8%	15	
Ethylbenzene	50.19	1	60	0	83.7%	68	120	52.69	4.9%	15	
m,p-Xylene	97.73	2	120	0.9785	80.6%	60	121	99.51	1.8%	15	
o-Xylene	58.84	1	60	0.507	97.2%	69	124	60.45	2.7%	15	
Toluene	53.75	2	60	0	89.6%	62	128	55.82	3.8%	15	

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9810084
Project	4-1532

### QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS SOIL	Batch ID: GC-1_981028	Test Code	: SW8020A	Units: µg/Kg		Analysi	s Date 10/2	8/98	Prep D	ate:	
Client ID:	9810084	Run ID:	GC-1_981028	BA		SeqNo:	8186				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	61.22	1	60	0	102.0%	71	116				
Ethylbenzene	60.9	1	60	0	101.5%	68	120	÷			
m,p-Xylene	121.6	2	120	0	101.4%	60	121				
o-Xylene	60.77	1	60	0.5945	100.3%	69	124				
Toluene	61.38	2	60	0	102.3%	62	128		,		
Sample ID: LCS SOIL	Batch ID: GC-1_981029	Test Code:	SW8020A	Units: µg/Kg		Analysis	s Date 10/2	9/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981029	A		SeqNo:	8230				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	60.46	1	60	0	100.8%	71	116				
Ethylbenzene	60.52	1	60	0	100.9%	68	120				
n,p-Xylene	121	2	120	0	100.8%	60	121				
o-Xylene	60.49	1	60	0	100.8%	69	124				
Toluene	60.65	2	60	0.7155	99.9%	62	128				

Qualifiers:

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

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1 of 1

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9810084
Project:	4-1532 •

### **QC SUMMARY REPORT**

Date: 20-Nov-98

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_981028	Test Code	SW8020A	Units: µg/Kg		Analysis	s Date 10/2	8/98	Prep D	ate:	
Client ID:	9810084	Run ID:	GC-1_981028	A		SeqNo:	8183				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	57.41	1	60	0	95.7%	85	115				
Ethylbenzene	57.77	1	60	0	96.3%	85	115				
m,p-Xylene	115.8	2	120	0	96.5%	85	115				
o-Xylene	57.69	1	60	0	96.2%	85	115				
Toluene	58.33	2	60	0	97.2%	85	115				
1,4-Difluorobenzene	81.19	0	80	0	101.5%	70	130				
4-Bromochlorobenzene	80.05	0	80	0	100.1%	50	150				
Fluorobenzene	79.75	0	80	0	99.7%	70	· 130				
Sample ID: CCV2 QC0606/07	Batch ID: GC-1_981028	Test Code:	SW8020A	Units: µg/Kg		Analysis	Date 10/2	8/98	Prep Da	ate:	_
Client ID:	9810084	Run ID:	GC-1_981028	A		SeqNo:	8184				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	61.8	1	60	0	103.0%	85	115				
Ethylbenzene	60.24	1	60	0	100.4%	85	115				
m,p-Xylene	120	2	120	0	100.0%	85	115				
o-Xylene	60.3	1	60	0	100.5%	85	115				
	61.8	2	60	0	103.0%	85	115				
Toluene	01.0										
	81.23	0	80	0	101.5%	70	130				
1,4-Difluorobenzene 4-Bromochlorobenzene		0 0	80 80	0 0	101.5% 100.1%	70 50	130 150				

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

#### CLIENT: On Site Technologies, Limited Partnership

Work Order: 9810084

**Project:** 4-1532

### **QC SUMMARY REPORT**

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07	Batch ID: GC-1_981028	Test Code:	SW8020A	Units: µg/Kg		Analysis	s Date 10/2	8/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981028	BA		SeqNo:	8185				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	59.68	1	60	0	99.5%	85	115				
Ethylbenzene	57.8	1	60	0	96.3%	85	115				
m,p-Xylene	114.7	2	120	0	95.6%	85	115				
o-Xylene	61.63	1	60	0	102.7%	85	115				
Toluene	59.42	2	60	0	99.0%	85	115				
1,4-Difluorobenzene	81.1	0	80	0	101.4%	70	130				
4-Bromochlorobenzene	91.36	0	80	0	114.2%	· 50	150				
Fluorobenzene	80.65	0	80	0	100.8%	70	130				
Sample ID: CCV1 QC0606/07	Batch ID: GC-1_981029	Test Code:	SW8020A	Units: µg/Kg		Analysis	Date 10/29	)/98	Prep Da	te:	
Client ID:	9810084	Run ID:	GC-1_981029	A		SeqNo:	8228				
Analyte											
· · · · · · · · · · · · · · · · · · ·	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	Result 61.49	PQL 1	SPK value 60	SPK Ref Val	%REC	LowLimit 85	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
		PQL 1 1						RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	61.49	PQL 1 1 2	60	0	102.5%	85	115	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Ethylbenzene m,p-Xylene o-Xylene	61.49 61.47	1	60 60	0 0	102.5% 102.5%	85 85	115 115	RPD Ref Val	%RPD	RPDLimit	Quai
Ethylbenzene m,p-Xylene	61.49 61.47 123.3	1	60 60 120	0 0 0	102.5% 102.5% 102.7%	85 85 85	115 115 115	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene m,p-Xylene o-Xylene	61.49 61.47 123.3 61.46	1 1 2 1	60 60 120 60	0 0 0 0	102.5% 102.5% 102.7% 102.4%	85 85 85 85	115 115 115 115 115	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene m,p-Xylene o-Xylene Toluene	61.49 61.47 123.3 61.46 61.59	1 1 2 1 2	60 60 120 60 60	0 0 0 0 0	102.5% 102.5% 102.7% 102.4% 102.6%	85 85 85 85 85	115 115 115 115 115 115	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

#### CLIENT: On Site Technologies, Limited Partnership

Work Order: 9810084

**Project:** 4-1532

### **QC SUMMARY REPORT**

Continuing Calibration Verification Standard

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_981029	Test Code:	SW8020A	Units: µg/Kg		Analysis	a Date 10/2	9/98	Prep Da	ate:	
Client ID:	9810084	Run ID:	GC-1_981029	A		SeqNo:	8229				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	61.04	1	60	0	101.7%	85	115				
Ethylbenzene	61.54	1	60	0	102.6%	85	115				
m,p-Xylene	119.6	2	120	0	99.7%	85	115				
o-Xylene	59.64	1	60	0	99.4%	85	115				
Toluene	61.9	2	60	0	103.2%	85	115				
1,4-Difluorobenzene	82.17	0	80	0	102.7%	70	130				
4-Bromochlorobenzene	103.5	0	80	0	129.3%	. 50	150				
Fluorobenzene	81.34	0	80	0	101.7%	70	130				
Sample ID: CCV3 QC0606/07	Batch ID: GC-1_981029	Test Code:	SW8020A	Units: µg/Kg		Analysis	Date 10/30	)/98	Prep Da	ite:	
Client ID:	9810084	Run ID:	GC-1_981029	Δ		SeqNo:	8221				
Appledo						bequo.					
Analyte	Result	PQL	-	SPK Ref Val	%REC	-		RPD Ref Val	%RPD	RPDLimit	Qual
	Result 57.2	PQL 1	-		%REC 95.3%	-		RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		PQL 1 1	SPK value	SPK Ref Val		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Ethylbenzene	57.2	PQL 1 1 2	SPK value 60	SPK Ref Val	95.3%	LowLimit 85	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Ethylbenzene m,p-Xylene	57.2 55.41	1	SPK value 60 60	SPK Ref Val 0 0	95.3% 92.4%	LowLimit 85 85	HighLimit 115 115	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Ethylbenzene m,p-Xylene o-Xylene	57.2 55.41 109.5	1	SPK value 60 60 120	SPK Ref Val 0 0 0	95.3% 92.4% 91.3%	LowLimit 85 85 85	HighLimit 115 115 115	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene	57.2 55.41 109.5 56.19	1 1 2 1	SPK value 60 60 120 60	SPK Ref Val 0 0 0 0	95.3% 92.4% 91.3% 93.6%	LowLimit 85 85 85 85	HighLimit 115 115 115 115	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene 1,4-Difluorobenzene 4-Bromochlorobenzene	57.2 55.41 109.5 56.19 56.9	1 1 2 1 2	SPK value 60 60 120 60 60	SPK Ref Val 0 0 0 0 0	95.3% 92.4% 91.3% 93.6% 94.8%	LowLimit 85 85 85 85 85	HighLimit 115 115 115 115 115 115	RPD Ref Val	%RPD	RPDLimit	Qual

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

### QC SUMMARY REPORT SURROGATE RECOVERIES

CLIENT:On Site Technologies, Limited PartnershipWork Order:9810084Project:4-1532Test No:SW8020A

#### BTEX

Sample ID	14FBZ	4BCBZ	FLBZ	
9810068-02A	103	102	102 .	
9810069-01A	90	86.9	102	
9810070-02A	86.2	87.8	99.6	
9810070-05A	85.7	96.6	99.2	
9810070-06A	82.3	92.3	101	
9810070-07A	89.1	99.5	101	
9810070-08A	86.1	· 94.2	98.2	
9810071-04A	88.4	90	94.5	
9810071-06A	103	114	101	
9810072-01A	102	104	101	
9810072-01AMS	102	94.2	100	
9810072-01AMSD	101	94.1	100	
9810073-01A	81.7	80.3	96.3	
9810073-02A	103	107	102	
9810080-01A	103	110	102	
9810080-01AMS	101	100	100	
9810080-01AMSD	102	102	101	
9810082-01A	103	89.3	103	
9810084-01A	104	150	102	
CCV1 QC0606/07	102	109	101	
CCV2 QC0606/07	103	129	102	
CCV3 QC0606/07	102	103	101	
LCS SOIL	101	103	101	
MB1	103	112	102	

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	50-150
FLBZ	= Fluorobenzene	70-130
	· · ·	
	rogate recovery outside accentance	

* Surrogate recovery outside acceptance limits

### RECEIVED NOV 1 9 1998



#### The Quality Solution

November 11, 1998

Mr. David Cox On Site Technologies, Ltd. 612 E Murray Drive Farmington, NM 87401

Reference: Project: Solid Analysis Project No.: 9810084 MSAI Group: 24652

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

9810084-01B

All holding times were met for the tests performed on these samples.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen Project Manager



#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

11/11/98 15:13:53 Group: 24652

Analysis Batch Number: 0259T-11/10/98-147 -1 Test Identification : 0259T-Mercury by CVAA, TCLP, 7470 Number of Samples : 18 Batch Data-Date/Time : 11/10/98 / 15:05:36

Sequence : 0259T-1

BLANK#	ANALYTE	CONC FOUND #	CONC	LIMIT				
PBW1-269	Mercury	0.0090	(	0.1000				*
PBW2-269-2	Mercury	0.0380		0.1000				
SPIKE							IMITS	
SAMPLE#	ANALYTE	CONC ADDED CO	DNC SAMPLE	CONC SPI	VE 9 950 #	LOWER		
24707-89065	Mercury	CONC_ADDEDC	-0.0800	22.85		80.0	UPPER .	`
24707-89065-2		25.0000	-0.0800	16.69			•	
24645-88838-3		25.0000	0.1430	23.37		50.0 50.0		
24722-89323-4				,				
24122-07323-4	mer cur y	25.0000	0.5370	19.82	50 77.2	50.0	150.0	
MSD						QC LIM	ITS	
SAMPLE#	ANALYTE	CONC ADDED . CO	ONC SAMPLE	RESULT	2 %REC2 #	LOWER U	PPER RPD #	LIMIT
24707-89065	Мегсигу	25.0000	-0.0800	24.35			15.0 6.3	20.0
DUPLICATE								
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT DILL	TION		
24707-89065	Mercury	-0.0800	-0.0780	2.5		.00		
		0.0000	0.0700	2.3	20.0	.00		
CONTROL					QC LIMITS			
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	<u>% REC #</u>	LOWER UPPER			
LCSW-269	Mercury	2.5230	2.5000	100.9	80.0 115.0	)		
				QC LI	MITS			
CCV #	ANALYTE	TRUE VALUE	BATCH READ	<u>% REC #</u>	LOWER UPPER			
ICV-	Mercury	3.0000	2.7510	91.7	90.0 110.0			
CCV2	Mercury	5.0000	5.0280	100.6	80.0 120.0			
CCV3	Mercury	5.0000	4.9360	98.7	80.0 120.0			
CCV4	Mercury	5.0000	4.9430	98.9	80.0 120.0			
CCV5	Mercury	5.0000	4.9520	99.0	80.0 120.0			
CCV6	Mercury	5.0000	4.8960	97.9	80.0 120.0			
CCB#	ANALYTE	CONC FOUND #	CONC	LIMIT				
ICB-	Mercury	-0.0130		0.1000				
CCB-	Mercury	0.0190		0.1000				
CCB-	Mercury	-0.0380		0.1000				
CCB-	Mercury	-0.0270		0.1000				
CCB-	Mercury	-0.0430		0.1000				

Groups	&	Sampl	es
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Мегсигу

CCB-

	.,	•					
24638-88808	24645-88838	24652-88859	24698-89019	24707-89065	24707-89066	24707-89067	24707-89068
24707-89069	24716-89112	24716-89113	24716-89114	24716-89115	24722-89323	24771-89322	24771-89324
24772-89323	24777-89371	24784-89412					

-0.0710

0.1000

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#### Page

1

#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

11/11/98 15:13:53 Group: 24652

QC LIMITS

Analysis Batch Number: HREXT-11/09/98-114 -2 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 16 Batch Data-Date/Time : 11/10/98 / 08:25:33

Sequence : DATQ313

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT
PBW1-738	Silver	0.0028	0.0030
	Arsenic	ND .	0_0150
	Barium	0.0011	0.0020
	Cadmium	0.0001	0.0010
	Chromium	0.0031	0.0050
	Copper	0.0026	0.0050
	Lead	0.0038	0.0150
	Selenium	0.0123	0.0150
	Thallium	0.0042	0.0080
	Zinc	0.0135	0.0150
PBW2-738-2	Silver	0.0021	0.0030
	Arsenic	0.0005	0.0150
	Barium	0.0010	0.0020
	Cadmium	0.0001	0.0010
	Chromium	0.0005	0.0050
	Copper	0.0012	0.0050
	Lead	ND	0.0150
	Selenium	0.0045	0.0150
	Thallium	0.0070	0.0080
	Zinc	0.0105	0.0150

SPIKE

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	<u>% REC #</u>	LOWER	UPPER
24645-88838	Silver	0.1000	0.0001	0.0968	96.6	80.0	120.0
	Arsenic	5.0000	-0.0004	5.5839	111.7	80.0	120.0
	Barium	10.0000	1.2016	11.3403	101.4	80.0	120.0
	Cadmium	0.1000	0.0034	0.0906	87.2	80.0	120.0
	Chromium	0.5000	0.0046	0.4909	97.3	80.0	120.0
	Copper	0.5000	0.0070	0.4665	91.9	80.0	120.0
	Lead	0.5000	0.0358	0.4904	90.9	80.0	120.0
	Selenium	5.0000	0.0177	5.5746	111.1	80.0	120.0
	Thallium	0.2000	0.0105	0.1931	91.3	80.0	120.0
	Zinc	5.0000	0.1010	4.7961	93.9	80.0	120.0
24645-88838-2	Silver	0.1000	0.0001	0.0975	97.4	80.0	120.0
	Arsenic	5.0000	-0.0004	5.6541	113.1	80.0	120.0
	Barium	10.0000	1.2016	11.3479	101.5	80.0	120.0
	Cadmium	0.1000	0.0034	0.0981	94.7	80.0	120.0
	Chromium	0.5000	0.0046	0.4926	97.6	80.0	120.0
	Copper	0.5000	0.0070	0.5086	100.3	80.0	120.0
	Lead	0.5000	0.0358	0.5047	93.8	80.0	120.0
	Selenium	5,0000	0.0177	5.4450	108.5	80.0	120.0
	Thallium	0.2000	0.0105	0.1980	93.7	80.0	120.0
	Zinc	5.0000	0.1010	4.8122	94.2	80.0	120.0
24707-89065-3	Silver	0.1000	0.0015	0.0972	95.6	80.0	120.0
	Arsenic	5.0000	0.0005	5.3364	106.7	80.0	120.0
	Barium	10.0000	0.2850	10.1754	98.9	80.0	120.0
	Cadmium	0.1000	0.0058	0.1015	95.8	80.0	120.0
	Chromium	0.5000	0.0018	0.4905	97.7	80.0	120.0
	Соррег	0.5000	0.0165	0.4918	95.1	80.0	120.0
	Lead	0.5000	0.0401	0.5322	98.4	80.0	120.0

#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Sequence : DATQ313

11/11/98 15:13:54 Group: 24652

#### Analysis Batch Number: HREXT-11/09/98-114 -2 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 16 Batch Data-Date/Time : 11/10/98 / 08:25:33

Barium

Cadmium

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SPIKE						DO	LIMITS		
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPI	<u>KE % RE</u>	•			
24707-89065-3	Selenium	5.0000	0.0117	5.30				_	
	Thallium	0.2000	-0.0004	0.20					
	Zinc	5.0000	0.0787	4.96	22 97.	7 80.0	120.0		
400									
MSD SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT	2 <u>%</u> REC		IMITS UPPER	<u></u>	LIMIT
24645-88838	Silver	0.1000	0.0001	0.09			120.0	0.2	20.0
24049 00000	Arsenic	5.0000	-0.0004	5.70			120.0	2.1	20.0
	Barium	10.0000	1.2016	11.56			120.0	2.0	20.0
	Cadmium	0.1000	0.0034	0.09			120.0	2.5	20.0
	Chromium	0.5000	0.0046	0.48				0.3	20.0
	Copper	0.5000	0.0070	0.48				2.9	20.0
	Lead	0.5000	0.0358				120.0	0.5	20.0
		5.0000	0.0177	5.01			120.0	0.7	20.0
	Thallium	0.2000	0.0105	0.19			120.0	0.9	20.0
	Zinc	5.0000	0.1010	4.81				0.4	20.0
DUPLICATE									
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	<u></u>	LIMIT	DILUTION			
24645-88838	Silver	0.0001	0.0033	<u>186.0(5a)</u>	20.0	1.00			
	Arsenic	-0.0004	0.0070	221.1(11)	20.0	1.00			
	Barium	1.2016	1.2095	0.7	20.0	1.00			
	Cadmium	0.0034	0.0035	1.2	20.0	1.00			
	Chromium	0.0046	0.0046	1.5	20.0	1.00			
	Copper	0.0070	0.0044	45.7(5a)	20.0	1.00			
	Lead	0.0358	0.0410	13.4	20.0	1.00			
	Selenium	0.0177	0.0156	12.6	20.0	1.00			
	Thallium	0.0105	0.0000	200.0(5a)	20.0	1.00			
	Zinc	0.1010	0.0922	9.1	20.0	1.00			
CONTROL					QC LIMI	ITS			
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	<u>% REC #</u>	LOWER UP				
LCSW-738	Silver	0.0972	0.1000	97.2	80.01				
	Arsenic	5.3134	5.0000	106.3	80.0 1	120.0			
	Barium	10.3736	10.0000	103.7	80.0	120.0			
	Cadmium	0.0925	0.1000	92.5	80.0 ^r	120.0			
	Chromium	0.4987	0.5000	99.7	80.0 ⁻	120.0			
	Соррег	0.4665	0.5000	93.3	<b>80.</b> 0 '	120.0			
	Lead	0.4997	0.5000	99.9	80.0	120.0			
	Selenium	5.2727	5.0000	105.5	80.0	120.0			
	Thallium	0.2077	0.2000	103.9	80.0	120.0			
	Zinc	5.0410	5.0000	100.8	80.0	120.0			
				QC LI	NITS				
CCV #	ANALYTE	TRUE VALUE	BATCH READ		LOWER U	PPER			
1CV-	Silver	0.1000	0.1012		90.0 1				
	Arsenic	0.4000		107.4	90.0 1				

1.0000

1.0000

1.0044 100.4

0.9912 99.1

90.0 110.0

90.0 110.0

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#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

11/11/98 15:13:54 Group: 24652

Analysis Batch Number: HREXT-11/09/98-114 -2 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 16 Batch Data-Date/Time : 11/10/98 / 08:25:33

#### Sequence : DATQ313

QC LIMITS

<u>CCV #</u>	ANALYTE	 TRUE VALUE	BATCH READ	<u>% REC #</u>	LOWER UPPER
ICV-	Chromium	1.0000	1.0257	102.6	90.0 110.0
	Copper	1.0000	0.9759	97.6	90.0 110.0
	Lead	5.0000	5.1598	103.2	90.0 110.0
	Selenium	0.4000	0.4277	106.9	90.0 110.0
	Thallium	1.0000	1.0390	103.9	90.0 110.0
	Zinc	1.0000	1.0032	100.3	90.0 110.0
CCV12	Silver	0.1000	0.1014	101.4	90.0 110.0
	Arsenic	0.4000	0.4155	103.9	90.0 110.0
	Barium	1.0000	0.9862	98.6	90.0 110.0
	Cadmium	1.0000	0.9616	96.2	90.0 110.0
	Chromium	1.0000	1.0184	101.8	90.0 110 <u>.</u> 0
	Copper	1.0000	0.9599	96.0	90.0 110.0
	Lead	5.0000	5.0975	101.9	90.0 110.0
	Selenium	0.4000	0.4113	102.8	90.0 110.0
	Thallium	1.0000	1.0245	102.5	90.0 110.0
	Zinc	1.0000	0.9793	97.9	90.0 110.0
CCV23	Silver	0.1000	0.1009	100.9	90.0 110.0
	Arsenic	0.4000	0.4238	106.0	90.0 110.0
	Barium	1.0000	1.0190	101.9	90.0 110.0
	Cadmium	1.0000	0.9951	99.5	90.0 110.0
	Chromium	1.0000	1.0129	101.3	90.0 110.0
	Copper	1.0000	0.9813	98.1	90.0 110.0
	Lead	5.0000	5.1061	102.1	90.0 110.0
	Selenium	0.4000	0.4190	104.7	90.0 110.0
	Thallium	1.0000	1.0194	101.9	90.0 110.0
	Zinc	1.0000	1.0081	100.8	90.0 110.0
CCV34	Silver	0.1000	0.0987	98.7	90.0 110.0
	Arsenic	0.4000	0.4192	104.8	90.0 110.0
	Barium	1.0000	1.0034	100.3	90.0 110.0
	Cadmium	1.0000	0.9820	98.2	90.0 110.0
	Chromium	1.0000	1.0036	100.4	90.0 110.0
	Copper	1.0000	0.9673	96.7	90.0 110.0
	Lead	5.0000	5.0365	100.7	90.0 110.0
	Selenium	0.4000	0.4191	104.8	90.0 110.0
	Thallium	1.0000	1.0087	100.9	90.0 110.0
	Zinc	1.0000	1.0001	100.0	90.0 110.0
CCV45	Silver	0.1000	0.0990	99.0	90.0 110.0
	Arsenic	0.4000	0.4328	108.2	90.0 110.0
	Barium	1.0000	1.0210	102.1	90.0 110.0
	Cadmium	1.0000	0.9947	99.5	90.0 110.0
	Chromium	1.0000	1.0041	100.4	90.0 110.0
	Copper	1.0000	0.9405	94.1	90.0 110.0
	Lead	5.0000	5.2365	104.7	90.0 110.0
	Selenium	0.4000	0.4251	106.3	90.0 110.0
	Thallium	1.0000	1.0232	102.3	90.0 110.0
	Zinc	1.0000	1.0210	102.1	90.0 110.0
	LING	1.0000	1.0210	102.1	70.0 110.0

#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Sequence : DATQ313

11/11/98 15:13:54

Group: 24652

Analysis Batch Number: HREXT-11/09/98-114 -2 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 16 Batch Data-Date/Time : 11/10/98 / 08:25:33

ANALYTE CCB# CONC FOUND # CONC LIMIT ICB-Silver 0.0007 0.0030 Arsenic 0.0003 0.0150 Barium 0.0004 0.0020 Cadmium ND 0.0010 Chromium ND 0.0050 Copper 0.0003 0.0050 Lead ND 0.0150 Selenium 0.0093 0.0150 Thallium 0.0028 0.0080 Zinc ND 0.0150 CCB1-Silver 0.0005 0.0030 Arsenic 0.0150 ND Barium 0.0001 0.0020 Cadmium ND 0.0010 Chromium 0.0001 0.0050 Copper ND 0.0050 Lead ND 0.0150 Selenium ND 0.0150 Thallium 0.0006 0.0080 Zinc ND 0.0150 CCB2-Silver 0.0007 0.0030 Arsenic ND 0.0150 Barium 0.0001 0.0020 Cadmium 0.0001 0.0010 Chromium ND 0.0050 Copper ND 0.0050 Lead ND 0.0150 Selenium ND 0.0150 Thallium 0.0013 0.0080 Zinc ND 0.0150 CCB3-Silver 0.0008 0.0030 Arsenic ND 0.0150 Barium 0.0005 0.0020 Cadmium ND 0.0010 Chromium ND 0.0050 Copper 0.0003 0.0050 Lead 0.0010 0.0150 Selenium 0.0077 0.0150 Thallium 0.0038 0.0080 Zinc 0.0002 0.0150 CCB4-Silver 0.0009 0.0030 Arsenic ND 0.0150 Barium 0.0005 0.0020 Cadmium 0.0000 0.0010 Chromium ND 0.0050 Copper 0.0002 0.0050 Lead 0.0150 ND Selenium 0.0072 0.0150 Thallium 0.0015 0.0080 Zinc ND 0.0150

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#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Analysis Batch Number: HREXT-11/09/98-114 -2 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 16 Batch Data-Date/Time : 11/10/98 / 08:25:33

Sequence : DATQ313

11/11/98 15:13:54 Group: 24652

(5a) - Duplicates not evaluated: Results are <10x detection limit

(11) - The duplicate results cannot be evaluated because both results are <MDL.

Groups & Samples

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24638-88808	24645-88838	24652-88859	24698-89019	24707-89065	24707-89066	24707-89067	24707-89068	
24707-89069	24716-89112	24716-89113	24716-89114	24716-89115	24739-89195	24771-89322	24771-89324	

J S On Site Technologies, LTD.

612 E. Murray Drive Farmington, NM 87401 (505) 325-2432

#### Subcontractor:

	Mountain States A 1645 West 2200 S		TEL: FAX:	(800) 973-6724 (801) 972-6278								
	Salt Lake City, UT	84119	Acct #	t: 				<u> </u>	-		28-()ct-98	
-	Sample ID	Matrix	Collection Date	Bottle Type	SW1010	SW1311	R \$W1311/6010A	equested Tests SW3010A	s SW7470	SW9045B	547.3.3.2 7.3.4.2	 ,
	9810084-01B	Soil	10/27/98 11:00:00 PM	ŀ	1	1	1	1	. 1	1		

Comments:

Please analyze one (1) soil sample for TCLP Metals, Reactivity(Cyanide&Sulfide), Corrosivity and Ignitability.

Date/Time

**Relinquished by:** 

10/28/98 1610

Received by: Kum Olsen

**CHAIN-OF-CUSTODY RECORD** 

Date/Time 98 1000

**Relinquished by:** 

**Received by:** 

Page 1 of 1

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TECHNOLOGIES	5, LTD. <b>V</b>	- An Constant and Co 

**CHAIN OF CUSTODY RECORD** 

Date: 10/28/98

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657 W. Maple • P. O. Box 2606 • Farmington NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256

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Authoriz	ed by:	$\frac{\sqrt{7}}{6}$	lient Signa	T dure Must	ccompan	y Request)		Date //	2×19	78					·		:				·	· · ·	
									Vallow														

P. O. Box 1950 New Mexico	Form C-13
Hobbs. NM 68241-1980 Energy 'inerals and Natural Resource	e epartment
District II - (505) 748-1283Oil Conservation Divisio811 S. First2040 South Pacheco StreetArtesia. NM 882102040 South Pacheco Street	
District III - (505) 334-6178         Santa Fe, New Mexico 87505           Rio Brazos Road         (505) 827-7131	OCT 0 5 1998 to appropria District Offi
<u>District IV</u> - (505) 827-7131	Environ coureau
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98085
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Gary Williams Energy
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Chaco
2. Management Facility Destination Environmental Landfarm	6. Transporter JUNCO Trucking
3. Address of Facility Operator 420 C.R. 3100 Aztec San Juan Count	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 5-5, T-25N, R12W	San Juan County, New Mexico
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted.</li> <li>Generator; one certificate per job.</li> <li>(B.) All requests for approval to accept non-exempt wastes must be accepted.</li> <li>(B.) All requests for approval to accept non-exempt wastes must be accepted.</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: Tank Bolloms From Crude Oil Storage Tank	
DECEIVED RECEIVED	
OIL CON. DIV. Environmental Bureau OIL CON. DIV. Oil Conservation Division DIV. 3	
Estimated Volume	erator at the end of the haul) cy
SIGNATURE:	al Specialist DATE: 9-22-98
	EPHONE NO. 334-8894
,,,,,,,,	
(This space for State Use)	
APPROVED BY: Demy Stown TITLE: Geold	DATE: 9/30/98
APPROVED BY: Mutum July - TITLE: Enu G	<u>colay's L</u> DATE: <u>10-5-98</u>

District I - (505) 502 5131       New Mex         P. O. Box 1980 3       Energy 1nerals and Natural         District II - (505) 748-1283       Oil Conservation         811 S. First       2040 South Pache         Artesia. NM 88210       2040 South Pache         District III - (505) 334-6178       Santa Fe, New Mex         Nio Brazos Road       (505) 827-7131	Resources copartment Considered 8/8/9 n Division co Street Submit Origina dico 87505
REQUEST FOR APPROVAL TO	ACCEPT SOLID WASTE 98085
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Gary Williams Energy
Verbal Approval Received: Yes 🗌 No 🔀	5. Originating Site Chaco
2. Management Facility Destination Environmental	6. Transporter Sunco Trucking
3. Address of Facility Operator 420 C.R. 3100 Aztec Sun	Suga County 8. State New Mexico
7. Location of Material (Street Address or ULSTR) 5-5, T-25N	RIZW Jan Juan County, New Mexico
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes m PROVE the material is not-hazardous and the Generator's listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those</li> </ul>	ust be accompanied by necessary chemical analysis to certification of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Tank Bottoms From Crude Oil Storage Tan	nK
,	DECEIVED N SEP 2 5 1998
	ON CON DIV. DIST. 3
Estimated Volume	Verbal DGF 9/30/98 ed by the operator at the end of the haul) cy
SIGNATURE: TITLE: A TYPE OR PRINT NAME: Tim Nobis	wi <i>conmental Specialist</i> DATE: <u>9-22-98</u> 
(This space for State Use) APPROVED BY: Demy 2, Tom TITLE:	Geologist DATE: 9/30/98
	DATE

DECEIVED SEP 2 5 1998 OIIL GONG DIVO

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Gary Williams Energy	Tierra Environmental Landform 420 C.R 3100
· · · · · ·	Aztec, New Mexico 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Chaco Storage Tank	Sec. 5, T-25N, R 12W
	San Juan County
	4
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Tank Bottoms From Crude Oil	Storage Tanks
I Tim Mahiz	representative for:
(Print Name)	epiesentative for.
1, Nobis (Print Name) Gary Willlams Energy	do hereby certify that,
according to the Resource Conservation and Rec	covery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above descri	bed waste is: (Check appropriate classification)
EXEMPT oilfield waste	EXEMPT oilfield waste which is non-hazardous by characteristic
analys	is or by product identification
and that nothing has been added to the exempt of	or non-exempt non-hazardous waste defined above.
•	ocumentation is attached (check appropriate items):
MSDS Information	Other (description):
Chain of Custody	
Ale of Opinianal Signature)	
Name (Original Signature):	
Title: Environmentel Specialist	
and the second s	

Date: <u>9-22-98</u>

PHONE NO. : 505 325 1905



"Partnerships for Safe Working Environments"

September 23, 1998

Tierra Environmental Corp. ATTN: Tim Nobis PO Drawer 15250 Farmington, NM 87401

RE: NORM READINGS ON SLUDGE SAMPLE

Mr. Nobis,

At your request, a sample was checked for NORM. No levels above background were detected.

Please call Safety Alliance, Inc. at 505-325-SAFE (7233) if you have questions regarding procedures or instrumentation.

Sincerely,

**A** Bennett

KJB/dm

## ENVIROTICH LABS

September 23, 1998

Mr. Phil Nobis Tierra Environmental Services, Inc. P.O. Drawer 15250 Farmington, New Mexico 87499

Project No.: 04074-03

Dear Mr. Nobis,

Enclosed are the analytical results for the sample collected from the location identified as "Chaco - GWE-1". One soil sample was collected by Tierra Environmental designated personnel on 09/17/98, and received by the Envirotech laboratory on 09/17/98 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 6269 and assigned Laboratory No. D937 for tracking purposes.

The sample was extracted on 09/17/98, and analyzed 09/17/98 through 09/23/98 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. It is always a pleasure doing business with you.

Respectfully submitted, **Envirotech, Inc.** 

y W lendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS\sws 03.l21/wpd 04074/04074-



#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	GWE - 1	Date Reported:	09-17-98
Lab ID#:	D937	Date Sampled:	09-15-98
Sample Matrix:	Soil / Sludge	Date Received:	09-17-98
Preservative:	Cool	Date Analyzed:	09-17-98
Condition:	Cool & Intact	Chain of Custody:	6269
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 6.57	
REACTIVITY:	Negative		
RCRA Hazardous Waste Crite	eria		
Parameter	Hazardous Waste Criterion		
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < $60^{\circ}$ C.)		
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5 )		
REACTIVITY:	(i.e. Violent reaction with wa	is defined by 40 CFR, Subpart C, Sec. ter, strong base, strong acid, or the ger ases at STP with pH between 2.0 and 3	neration
Reference:	40 CFR part 261 Subpart C	sections 261.21 - 261.23, July 1, 1992	

Comments:

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1,2-Dichloroethane

Tetrachloroethene

1,4-Dichlorobenzene

Trichloroethene

Chlorobenzene

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

0.5

0.5

0.7

7.5

100

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	GWE - 1	Date Reported:	09-21-98
Laboratory Number:	D937	Date Sampled:	09-15-98
Chain of Custody:	6269	Date Received:	09-17-98
Sample Matrix:	Soil	Date Extracted:	09-17-98
Preservative:	Cool	Date Analyzed:	09-21-98
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	0.0012	0.0001	0.5

0.0001

0.0003

0.0005

0.0003

0.0002

ND - Parameter not detected at the stated detection limit.

ND

ND

ND

ND

ND

nce 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 8020, Aromatic Volatile	Organics, SVV-040, USEPA, Se	ρι. 1994.
Regulatory Limits based on 40 C	CFR part 261 Subpart C section	261.24, July 1, 1992.
Chaco.		
	Method 1311, Toxicity Character Method 5030, Purge-and-Trap, S Method 8010, Halogenated Vola Method 8020, Aromatic Volatile Regulatory Limits based on 40 C	Trifluorotoluene Bromofluorobenzene Method 1311, Toxicity Characteristic Leaching Procedure, SW- Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Se Regulatory Limits based on 40 CFR part 261 Subpart C section

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## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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## EPA METHOD 8040 PHENOLS

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Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	GWE - 1	Date Reported:	09-21-98
Laboratory Number:	D937	Date Sampled:	09-15-98
Chain of Custody:	6269	Date Received:	09-17-98
Sample Matrix:	Soil	Date Extracted:	09-17-98
Preservative:	Cool	Date Analyzed:	09-21-98
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	97%
	2,4,6-Tribromophenol	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Note:

Comments: Chaco.

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

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Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	GWE - 1	Date Reported:	09-21-98
Laboratory Number:	D937	Date Sampled:	09-15-98
Chain of Custody:	6269	Date Received:	09-17-98
Sample Matrix:	Soil	Date Extracted:	09-17-98
Preservative:	Cool	Date Analyzed:	09-21-98
Condition:	Cool and Intact	Analysis Requested:	TCLP
		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	0.040	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.

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

Comments:

Note:

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# ENVIROTECHPLABS

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

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	GWE - 1	Date Reported:	09-22-98
Laboratory Number:	D937	Date Sampled:	09-15-98
Chain of Custody:	6269	Date Received:	09-17-98
Sample Matrix:	Soil .	Date Analyzed:	09-22-98
Preservative:	Cool	Date Extracted:	09-17-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

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

Arsenic	0.0046	0.0001	5.0
Barium	2.97	0.001	21
Cadmium	ND	0.0001	0.11
Chromium	0.0074	0.0001	0.60
Lead	0.0498	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	0.0083	0.0001	5.7
Silver	ND	0.0001	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 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

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

Comments: Chaco.

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## **QUALITY ASSURANCE / QUALITY CONTROL**

## DOCUMENTATION

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## ENVIROTICE LABS

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-21-98
Laboratory Number:	09-21-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-21-98
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-Tr	ap, SW-846, USEPA, July 1992.				
	Method 8010, Halogenated	Volatile Organic, SW-846, USEPA,	Sept. 1994.			
	Method 8020, Aromatic Vola	atile Organics, SW-846, USEPA, Se	ept. 1994.			
Note:	Regulatory Limits based on	40 CFR part 261 Subpart C sectior	1 261.24, July 1, 1992.			

Comments:

QA/QC for samples D932 and D937.

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-21-98
Laboratory Number:	09-17-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-21-98
Condition:	N/A	Date Extracted:	09-17-98
		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	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	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:

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

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplica	te	Date Reported:	09-21-98
Laboratory Number:	D932		Date Sampled:	N/A
Sample Matrix:	TCLP Extract		Date Received:	N/A
Analysis Requested:	TCLP ·		Date Analyzed:	09-21-98
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:

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

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	09-21-98
Laboratory Number:	D932			Date Sample	d:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	09-21-98
Condition:	N/A			Date Extracte	ed:	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	0.0495	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:** 

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## ÉPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-21-98
Laboratory Number:	09-21-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A .	Date Analyzed:	09-21-98
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results	• • •	Detection	Regulatory
Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

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

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

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

Comments: QA/QC for samples D932 and D937.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-21-98
Laboratory Number:	09-17-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-17-98
Condition:	Cool & Intact	Date Analyzed:	09-21-98
		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	96%	
	2,4,6-Tribromophenol	99%	

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid References: Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note:

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

QA/QC for samples D932 and D937.

Comments:

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## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-21-98
Laboratory Number:	D932	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-17-98
Condition:	Cool & Intact	Date Analyzed:	09-21-98
		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	0.089	0.089	0.040	0.0%
2,4,6-Trichlorophenol	0.036	0.036	0.020	0.0%
2,4,5-Trichlorophenol	0.022	0.022	0.020	0.0%
Pentachlorophenol	0.079	0.079	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	haracteristic Leaching Procedure Test I A, July 1992.	Methods for Evaluating Solid
	Method 3510, Separator Waste, SW-846, USEPA	y Funnel Liquid-Liquid Extraction, Test	Methods for Evaluating Solid
	Method 8040, Phenols, ⁻	Fest Methods for Evaluating Solid Wast	e, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for samples	D932 and D937.	
Analyst	h. Que	Review	y W. Jendle

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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:	09-21-98
Laboratory Number:	09-21-TBN-Blank	Date Sampled:	. <b>N/A</b>
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-21-98
		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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	100%
References:	Method 3510, Separator	haracteristic Leaching Procedure, S y Funnel Liquid-Liquid Extraction, S atics and Cyclic Ketones, SW-846, I	W-846, USEPA, July 1992.
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sect	tion 261.24, July 1, 1992.

Comments:

Analyst

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

Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
·····		Det.	Regulatory
		Analysis Requested:	TCLP
Condition:	Cool and Intact	Date Analyzed:	09-21-98
Preservative:	Cool	Date Extracted:	09-17-98
Sample Matrix:	TCLP Extract	Date Received:	. <b>N/A</b>
Laboratory Number:	09-17-TBN-MB	Date Sampled:	N/A
Sample ID:	Method Blank	Date Reported:	09-21-98
Client:	QA/QC	Project #:	N/A

	(9, =)	(	
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		2-fluorobiphenyl	99%	
References:	Method 3510, Separatory F	1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.		
Note		cs and Cyclic Ketones, SW-846, 1 1 40 CFR part 261 Subpart C sect		

Comments:

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

Client:	lient: QA/QC			N/A	
Sample ID:	Matrix Duplicate	Date Reported:	·	09-21-98	
Laboratory Number:	D932	Date Sampled:		N/A	
Sample Matrix:	TCLP Extract	Date Received:		N/A	
Preservative:	N/A	Date Extracted:		N/A	
Condition:	N/A	Date Analyzed:		<b>09-2</b> 1-98	
		Analysis Reque	sted:	TCLP	
······	Sample	Duplicate		Det.	
	Result	Result	Percent	Limit	
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)	
Pyridine	ND	ND	0.0%	0.020	
Hexachloroethane	ND	ND	0.0%	0.020	
Nitrobenzene	ND	ND	0.0%	0.020	
Hexachlorobutadiene	ND	ND	0.0%	0.020	
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

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 D932 and D937.

. L. ajeren Analys

tacy W. Jende Review

30%

## Envirotechlabs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Range

Client:		QA/QC		Project #:			N/A	
Sample ID:		09-22-TCM QA/QC		Date Repo	orted:		09-22-98	
Laboratory Number:		D932		Date Sam	oled:		N/A	
Sample Matrix:		TCLP Extrac	t	Date Rece	ived:		N/A	
Analysis Requested:		TCLP Metals		Date Analy	/zed:		09-22-98	
Condition:		N/A		Date Extracted:			09-17-98	
Blank & Duplicate	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range	
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	
Barium	ND	ND	0.001	0.762	0.760	0.3%	0% - 30%	
Cadmium	ND	ND	0.0001	0.0224	0.0222	0.9%	0% - 30%	
Chromium	ND	ND	0.0001	0.0028	0.0028	0.0%	0% - 30%	
	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	
_ead								
	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	
Lead Mercury Selenium	ND ND	ND ND	0.0001 0.0001	ND ND	ND ND	0.0% 0.0%	0% - 30% 0% - 30%	

Spike Sample Spiked Percent Conc. (mg/L) Added Sample Recovery

Arsenic	0.1000	ND	0.0998	99.8%	80% - 120%
Barium	1.000	0.762	1.759	99.8%	80% - 120%
Cadmium	0.0500	0.022	0.0725	100.1%	80% - 120%
Chromium	0.0500	0.0028	0.0527	99.8%	80% - 120%
Lead	0.1000	ND	0.0999	99.9%	80% - 120%
Mercury	0.0250	ND	0.0249	99.6%	80% - 120%
Selenium	0.1000	ND	0.0997	99.7%	80% - 120%
Silver	0.0500	ND	0.0499	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 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

Analyst

Review

## CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location	າ													
Tierra Enui	VONME	stel	Chac	3						· •	NALYS	IS / PAH	AMETE	45			
Sampler:			Client No.				· 0	9							Remarks		
Tim Nobis	2		04071	f- 20			No. of Containers	03									<u></u>
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		Contro	TCLP									
GWE-1	9.15.98	1500	D937	50	:1/51.	dre	2	V									
						0									-		
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Relinquished by: (Signatu		I	L	Date 2.17.99	Time 0940		ved by:	(Signatu	l ire) 4	> (	<u> </u>	1	I	1	Date		me
Relinquished by: (Signatu		<u> </u>	······································		0140		ved by:	(Signatu	re)	<u>,                                     </u>	q	<u>en a</u>	<b>.</b>		9.17.98	02	240
Relinquished by: (Signatu	ire)	<u>.</u>				Recei	ved by:	(Signatu	ire)								
	<u> </u>	<u> </u>		ENV		TF(	<u>~н</u>		<u> </u>					Samp	le Receipt	<u> </u>	
					IKU										Y	N	N//
					5796 U.S ington, N				1			;	Rec	eived Intac	at L		
					(505)			2.10	-				Cool	- Ice/Blue			

6269

ENVIRONMENTAL	CH.		1210	DY EC	ORD			
COMPANY Inc.			Date:	9/17/9	-8-		Page	_of
P.O. DRAWER 15250 FARMINGTON, NM 87401					·			
Purchase Order No.:	Job No.			Name			Title	
Name ·			ļ	Company				
Company Address	· :	Dept.		LX Company Mailing Add City, State, 2	ress			
	• •			City, State, 2	Zip			
City, State, Zip	,			Telephone 1	No.	٦	elefax No.	
Sampling Location:						ANALYSIS REQU	EETED	
				<del>.</del> 9		ANALI SIS REQU	ESTED	
Chaco.				liner				
• Sampler:				Containers				
SAMPLE IDENTIFICATION	DAI	SAMPLE E TIME MATRIX	PRES.	2 Cr				LAB ID
o'L	9	3 M						
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·								
• •						. •		
Relir Jished		Date/Time		Received	C		Date/Time	
Rel Jished		Date/Time ~	-	Received	• -		Date/Time	
Re jished		Date/Time		Received t			Date/Time	
Method of Sh ant:				Rush	24-48 Hours	10 Working Days	Special Instructions:	
Authorized by:	- mpany Request)	Date						

• ·

Distign 1 - (505) 393-6161       New Mexico         O. Box 1980       Energy .       erals and Natural Resource         Jobbs, NM 88241-1980       Energy .       erals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         11 S. First       2040 South Pacheco Street         rtesia, NM 88210       2040 South Pacheco Street         'trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98097
1. RCRA Exempt: D E. Busch.	4. Generator Hallwood Petroleum
Verbal Approval Received: 7/23/98 Ves No	5. Originating Site Southern Ute 15-1
2. Management Facility Destination Tierra Environmenta   Londfarm	6. Transporter On-5. te Technologies
3. Address of Facility Operator 420 C.R. 3100 Aztec. San Juan County	8. State New Mexico
7 Logation of Material (Street Address of LILSTR)	Southern Ute Reservation Colorado
9. <u>Circle One</u> :	
<ul> <li>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> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Soil Contaminated with Petroleum Hydrocarbons</li> </ul>	on of origin. No waste classified hazardous by d for transport.
oil and parafin resulting from a spill on the So	
	DECEIVED SEP 2 5 1998 OTL CONL DIV. DIST. 3
	IMIBIIS O
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) cy
Waste Maplagement FacilityAuthorized Agent	<u>dal Specialist</u> DATE: <u>9-23-98</u> EPHONE NO. <u>334-8894</u>
(This space for State Use) APPROVED BY: Casure Brunch TITLE: Geol	69 cat DATE: 9-30-98

		e
	Re BJack	C de ist
	APPROVED BY: Dem 2, Tout TITLE:	6-e01051>1
ļ	4	

DATE: 9/30/98

RECEIVED SEP 0 8 1998

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Hallwood Petroleum Inc.	Tierra Environmental Corporation
4582.50 Ulster Street Parkway	
4582.50 Ulster Street Parkway Suite 1700, Denver, colo	SE 1/4, Sec. Z, TZGIN, E.IZ.W.
3. Originating Site (name):	Location of the Weste (Street address &/or ULSTR);
Southern ite	Southern Ute
Clark 15-1	Clark 19-1
SEC. 15, TB3N, RIIM. Colorado	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Soil contaminated with Detrol	even hydrocarbons in the form of
Soil contaminated with petrol oil and parattin resulting from Location.	a spill another south and it was
Location.	The second of the 15-1
Chris Williams	representative for:
Halling (Print Name)	
Hallwood Detroleum, I	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July,
Hallwood Petroleum, Z according to the Resource Conservation and Recover 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described X EXEMPT oilfield wasteNON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic
according to the Resource Conservation and Recover 1988, regulatory determination, the above described X EXEMPT oilfield wasteNON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
according to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT cilfield waste NON-EXEM analysis or	ry Act (RCRA) and Environmental Protaction Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recover 1988, regulatory determination, the above described X EXEMPT oilfield wasteNON-EXEM	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification
according to the Resource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste NON-EXEM analysis or and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate descrification) IPT olifield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste NON-EXEM analysis or and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS information	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate descrification) IPT olifield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above.
according to the Rasource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste NON-EXEM analysis or and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS information RCRA Hazardous Waste Analysis	ny 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 n-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste NON-EXEM analysis or and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS information	ny 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 n-exempt non-hazardous waste defined above.
according to the Rasource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste NON-EXEM analysis or and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS information RCRA Hazardous Waste Analysis	Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) APT olifield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): Other (description):
according to the Rasource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste	ny 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 n-exempt non-hazardous waste defined above.
according to the Rasource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste NON-EXEM analysis or and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docum MSDS information RCRA Hazardous Waste Analysis	Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) APT olifield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): Other (description):
according to the Rasource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste	Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) NPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. mentation is attached (check appropriate Items): 
according to the Rasource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste	NY Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) NPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. mentation is attached (check appropriate Items): Other (description):

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#### CERTIFICATE FROM OUT-OF-STATE AGENCY AUTHORIZING REMOVAL OF RCRA EXEMPT OIL FIELD WASTE FROM SOUTHERN UTE INDIAN TRIBE JURISDICTION TO NEW MEXICO

I have reviewed the submitted information concerning the exempt oil field waste material from the Southern Ute #15-1 Well, currently stored at the Clark #4-1 Disposal Well, and agree that by its description it is exempt as defined by the Resource Conservation and Recovery Act.

- X The material is exempt oil field waste.
- X No determination is made on the possible hazardous nature of the waste, due to the exempt status.

#### THEREFORE:

As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed to New Mexico for disposal at the Tierra Environmental Landfarm.

NAME: Cheryl L. Wiescamp	TITLE:	Acting Director, Enviro	nmental Programs
SIGNATURE Chery - Wieneng	DATE:_	7/27/98	

AGENCY: Southern Ute Indian Tribe

ADDRESS: P.O. Box 737, Ignacio, CO 81137

PHONE: (970) 563-0135



Tribal Affairs Building

July 27, 1998

Craig Starkey Onsite Technologies, Ltd. P.O. Box 2606 Farmington, NM 87499

VIA FACSIMILE: (505) 325-6256

Dear Mr. Starley:

The Southern Ute Environmental Programs Division has reviewed your request to transport exempt oil field waste from Colorado to New Mexico. The ten (10) drums of soil and paraffin generated at the Southern Ute #15-1 well and currently stored at the Clark #4-1 Disposal Well location may be transported to the Tierra Environmental Landfarm where the contents will be removed and placed in a cell for treatment.

Enclosed are 2 original signed certificates necessary for transportation of the waste.

We request that you send us a copy of any NM permits you receive.

Sincerely,

A. Wilscamp

Cheryl L. Wiescamp Acting Director Environmental Programs

P.O. Box 737 • 116 Capote Dr. • Ignacio, CO 81137 • Phone: 303-553-0100 • FAX: 303-583-0396

bys. NM ©1241-1980       Energy Minerals and Natural Resource         int(5, \$) + (505) 748-1283       Oil Conservation Division         S. First       2040 South Pacheco Street         mice III + (505) 334-6178       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131         refet IV + (505) 827-7131       Santa Fe, New Mexico 87505	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98094
1. RCRA Exempt: 🛄 Non-Exempt: 🕅	4. Generator COI
Verbal Approval Received: Yes 🛄 No 🔀	5. Originating Site COI Yard
2. Management Facility Destination Tierra Environ mental Landfarm	
3. Address of Facility Operator 420 C.R. 3100 Aztec. 500 June Cont	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 39/1 Monco e. Rd.	Facmington, NM 87401
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept and the 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> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL: Contaminated Soil from Yard Clean-uf</li> </ul>	companied by necessary chemical analysis to on of origin. No waste classified hazardous by ed for transport.
DECE N ser 1 OIL COL DIST	6.8
IN SEP 1 OIL COL DIST. Estimated Volume — 20 cy Known Volume (to be entered by the op SIGNATURE:	6.8

District I - (505) 393-6161       New' Mexico         O. Box 1980       Interview Mexico         Nobbs, NM 88241-1980       Interview Mexico         District II - (505) 748-1283       Interview Mexico         11 S. First       Oil Conservation Divisio         rtesia, NM 88210       2040 South Pacheco Street         ' trict III'- (505) 334-6178       Santa Fe, New Mexico 87505         Niso Brazos Road       (505) 827-7131	n Submit Origina
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98094
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator COI
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site CDI Yard
2. Management Facility Destination Tierra Environmental Landfarm	6. Transporter Floug Foutz Const.
3. Address of Facility Operator 420 C.R. 3100 Aztec, San Juan Count	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 39// Monroe Kd.	· ·
9. <u>Circle One</u> :	Earnington, NM 87401
B. All requests for approval to accept non-exempt wastes must be accord PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Contaminated Soil from Yard Clean-op	n of origin. No waste classified hazardous by
DEC N sep OIL CO	EIVED 1 5 1998 DN. DIV.
Estimated Volume Cy Known Volume (to be entered by the ope	
Waste Management FacilityAuthonzed Agent	Lal <u>Specialis</u> DATE: <u>9-11-98</u> EPHONE NO. <u>334-8894</u>
(This space for State Use) APPROVED BY: Demy G. Fent TITLE: GEO/OG	<u>gist</u> DATE: <u>9/1578</u>

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Chemical Distributors Inc.	Tierra Environmental Landfarm
3911 Monroe Rd	420 C.R. 3100
Farmington, NM 87401	Aztec, NM 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
COI Yard	3911 Monroe Rd.
	Farmington, NM 87401
	5
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Yard Clean-up Soils	
lard creation of	
· · · · · · · · · · · · · · · · · · ·	
1, <u>Jerry Aughes</u> (Print Name)	representative for:
<u>Chemical Distributors, Inc.</u>	do hereby certify that,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docur MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature):	
Title: Devalion ming.	
Date: 9/11/28	

# **INVIROTECH LABS**

September 10, 1998

Mr. Phil Nobis Tierra Environmental Services, Inc. P.O. Drawer 15250 Farmington, New Mexico 87499

Project No.: 04074-03

Dear Mr. Nobis,

Enclosed are the analytical results for the samples collected from the location identified as "CDI Yard". Two soil samples were collected by Tierra Environmental designated personnel on 08/31/98, and received by the Envirotech laboratory on 08/31/98 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The samples were documented on Envirotech Chain of Custody No. 6252 and assigned Laboratory Nos. D882 (CDI-#1) and D883 (CDI-#2) for tracking purposes.

The samples were extracted on 09/01/98, and analyzed 09/01/98 through 09/10/98 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. It is always a pleasure doing business with you.

Respectfully submitted, **Envirotech**, **Inc**.

acu W Sendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS\sws 03.I19/wpd 04074/04074-



#### SUSPECTED HAZARDOUS WASTE ANALYSIS.

01					
Client:	Tierra Environmental	Project #:	04074-03		
Sample ID:	CDI #1	Date Reported:	09-01-98		
Lab ID#:	D882	Date Sampled:	08-28-98		
Sample Matrix:	Soil	Date Received:	08-31-98		
Preservative:	Cool	Date Analyzed:	09-01-98		
Condition:	Cool & Intact	Chain of Custody:	6252		
Parameter	Result				
IGNITABILITY:	Negative				
CORROSIVITY:	Negative	pH = 10.75			
REACTIVITY:	Negative				
RCRA Hazardous Waste Crite	eria				
Parameter	Hazardous Waste Criterion				
IGNITABILITY:		as defined by 40 CFR, Subpart C, Sec. rect contact with flame or flash point <			
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)				
REACTIVITY:	(i.e. Violent reaction with wa	is defined by 40 CFR, Subpart C, Sec. ter, strong base, strong acid, or the ge ases at STP with pH between 2.0 and	neration		
Reference:	40 CFR part 261 Subpart C	sections 261.21 - 261.23, July 1, 1992	2.		

Comments:

CDI Yard.

dience ۲.

Analyst

tacy W Sendler Review

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



## SUSPECTED HAZARDOUS WASTE ANALYSIS.

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI #2	Date Reported:	09-01-98
Lab ID#:	D883	Date Sampled:	08-28-98
Sample Matrix:	Soil	Date Received:	08-31-98
Preservative:	Cool	Date Analyzed:	09-01-98
Condition:	Cool & Intact	Chain of Custody:	6252
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 5.79	
REACTIVITY:	Negative		
RCRA Hazardous Waste Crite	eria		
Parameter	Hazardous Waste Criterion		
IGNITABILITY:	Characteristic of Ignitability	as defined by 40 CFR, Subpart C, Sec.	261.21.
		rect contact with flame or flash point <	
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 a	as defined by 40 CFR, Subpart C, Sec.	261.23.
		ter, strong base, strong acid, or the ge	
	of Sulfide or Cyanide g	ases 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	2.
Comments:	CDI Vard		

Comments:

CDI Yard.

Giance L. 1 Analyst

Stacy W Sendler Review

## ENVIROTECI LABS

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## AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI #1	Date Reported:	09-03-98
Laboratory Number:	D882	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil	Date Extracted:	09-01-98
Preservative:	Cool	Date Analyzed:	09-03-98
Condition:	Cool & Intact	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	0.0380	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0659	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0312	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	0.0004	0.0003	0.5
Tetrachloroethene	0.0158	0.0005	0.7
Chlorobenzene	0.0025	0.0003	100
1,4-Dichlorobenzene	0.0062	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 C	Foxicity Characteristic Leaching Procedure, SW-846, USEPA, July 199		
	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:

CDI Yard.

en R. Gjeun

Stacy W Sendler Review



## AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI #2	Date Reported:	09-03-98
Laboratory Number:	D883	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil	Date Extracted:	09-01-98
Preservative:	Cool	Date Analyzed:	09-03-98
Condition:	Cool & Intact	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	0.0338	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	0.0291	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	0.0021	0.0003	0.5
Tetrachloroethene	0.0111	0.0005	0.7
Chlorobenzene	0.0041	0.0003	100
1,4-Dichlorobenzene	0.0228	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: CDI Yard.			

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Stacy W Sendler Review



## .. A METHOD 8040 PHENOLS

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Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI #1	Date Reported:	09-04-98
Laboratory Number:	D882	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil .	Date Extracted:	<b>09-</b> 01-98
Preservative:	Cool	Date Analyzed:	09-04-98
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	101%
	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:

CDI Yard.

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Stacy W Sendler Review

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Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI #2	Date Reported:	09-04-98
Laboratory Number:	D883	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil .	Date Extracted:	09-01-98
Preservative:	Cool	Date Analyzed:	09-04-98
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	101%
	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:

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

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI #1	Date Reported:	09-03-98
Laboratory Number:	D882	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil	Date Extracted:	09-01-98
Preservative:	Cool	Date Analyzed:	09-03-98
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 3510, Separate	xicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. paratory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.	
Note:		lethod 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986. egulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.	
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		
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Comments:

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

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI #2	Date Reported:	09-03-98
Laboratory Number:	D883	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil ·	Date Extracted:	09-01-98
Preservative:	Cool	Date Analyzed:	09-03-98
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

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:

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

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI - #1	Date Reported:	09-08-98
Laboratory Number:	D882	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil	Date Analyzed:	09-08-98
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
·	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND	0.0001	5.0
Barium	ND	0.001	21
Cadmium	0.0157	0.0001	0.11
Chromium	0.0128	0.0001	0.60
Lead	ND	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	0.0190	0.0001	5.7
Silver	ND	0.0001	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 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

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

Comments:

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#### _.^A METHOD 1311 **TOXICITY CHARACTERISTIC** LEACHING PROCEDURE **TRACE METAL ANALYSIS**

0.75

0.025

5.7

0.14

Client:	Tierra Environmental	Project #:	04074-03
Sample ID:	CDI - #2	Date Reported:	09-08-98
Laboratory Number:	D883	Date Sampled:	08-28-98
Chain of Custody:	6252	Date Received:	08-31-98
Sample Matrix:	Soil	Date Analyzed:	09-08-98
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals,

Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
0.0344	0.0001	5.0
ND	0.001	21
0.0908	0.0001	0.11
0.0157	0.0001	0.60
	(mg/L) 0.0344 ND 0.0908	(mg/L) (mg/L) 0.0344 0.0001 ND 0.001 0.0908 0.0001

0.0001

0.0001 0.0001

0.0001

ND - Parameter not detected at the stated detection limit.

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

ND

ND

ND

ND

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Lead

Silver

Mercury

Selenium

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

Comments:

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### QUALITY ASSURANCE / QUALITY CONTROL

### DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-03-98
Laboratory Number:	09-03-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-03-98
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:	-	Characteristic Leaching Procedure, SW	-846, USEPA, July 1992.
	· •	ge-and-Trap, SW-846, USEPA, July 1992. ogenated Volatile Organic, SW-846, USEPA, Sept. 1994.	
		Volatile Organics, SW-846, USEPA, S	
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.
Comments:	QA/QC for samples	5 D861, D867 and D882 - D883.	

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-03-98
Laboratory Number:	09-01-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-03-98
Condition:	N/A	Date Extracted:	09-01-98
·		Analysis Requested:	TCLP

		Detection	Regulatory	
	Concentration	Limit	Limits	
Parameter	ameter (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.

tance Criteria	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	99% 98%
Method 5030, Purge-an Method 8010, Halogena	d-Trap, SW-846, USEPA, July 1992. ated Volatile Organic, SW-846, USEP	PA, Sept. 1994.
QA/QC for samples	s D861, D867 and D882 - D883	5 <b>.</b>
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	Method 1311, Toxicity C Method 5030, Purge-an Method 8010, Halogena Method 8020, Aromatic Regulatory Limits based QA/QC for samples	Trifluorotoluene Bromofluorobenzene Method 1311, Toxicity Characteristic Leaching Procedure, S Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEP Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Regulatory Limits based on 40 CFR part 261 Subpart C sect QA/QC for samples D861, D867 and D882 - D883

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#### EPAMETHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplicat	te	Date Reported:	09-03-98
Laboratory Number:	D861		Date Sampled:	N/A
Sample Matrix:	TCLP Extract		Date Received:	N/A
Analysis Requested:	TCLP ·		Date Analyzed:	09-03-98
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	0.0114	0.0114	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	15.9	15.9	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	1.41	1.41	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	0.229	0.229	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	0.191	0.191	0.0003	0.0%
1,4-Dichlorobenzene	0.120	0.120	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 D861, D867 and D882 - D883.

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

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	09-03-98
Laboratory Number:	D861			Date Sample	d:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	09-03-98
Condition:	N/A			Date Extracte	ed:	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	0.0114	0.050	0.0609	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0495	0.0001	99%	43-143
2-Butanone (MEK)	15.9	0.050	15.9	0.0001	100%	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	1.41	0.050	1.46	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0495	0.0001	99%	51-147
Trichloroethene	0.229	0.050	0.279	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	0.191	0.050	0.240	0.0003	100%	38-150
1,4-Dichlorobenzene	0.120	0.050	0.169	0.0002	100%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

	,		
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-04-98
Laboratory Number:	09-04-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	. 09-04-98
Condition:	N/A	Analysis Rèquested:	TCLP
Analytical Results		Detection	Regulatory
-	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
••••			
2,4,5-Trichlorophenol	ND	0.020	400

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:		Parameter	Percent Recovery
		2-fluorophenol	101 %
		2,4,6-tribromophenol	102 %
		1, Toxicity Characteristic Leaching Procedur -846, USEPA, July 1992.	re Test Methods for Evaluating Solid
		10, Separatory Funnel Liquid-Liquid Extractio 2-846, USEPA, July 1992.	on, Test Methods for Evaluating Solid
	Method 804	10, Phenols, Test Methods for Evaluating Sol	lid Waste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory	Limits based on 40 CFR part 261 subpart C	section 261.24, July 1, 1992.

Comments: QA/QC for samples D861, D867 and D882 - D883.

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-04-98
Laboratory Number:	09-01-TA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool & Intact	Date Analyzed:	09-04-98
		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	101%	
		2,4,6-Tribromophenol	101%	
References:	Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Waste, SW-846, USEPA, July 1992.			
		), Separatory Funnel Liquid-Liquid Extraction, 846, USEPA, July 1992.	Test Methods for Evaluating Solid	
	Method 804	), Phenols, Test Methods for Evaluating Solid \	Waste, SW-846, USEPA, Sept. 1986.	
Note:	Regulatory I	imits based on 40 CFR part 261 subpart C sec	ction 261.24, July 1, 1992.	
Comments:	QA/QC fo	r samples D861, D867 and D882 - D88	33.	

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Stacy W Sendler Review



#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-04-98
Laboratory Number:	D861	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool & Intact	Date Analyzed:	09-04-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.22	0.22	0.020	0.0%
p,m-Cresol	1.41	1.41	0.040	0.0%
2,4,6-Trichlorophenol	1.58	1.58	0.020	0.0%
2,4,5-Trichlorophenol	0.74	0.74	0.020	0.0%
Pentachlorophenol	0.51	0.51	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEP	haracteristic Leaching Procedure Test I A, July 1992.	Methods for Evaluating Solid
	Method 3510, Separato Waste, SW-846, USEP	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenois,	Test Methods for Evaluating Solid Wast	e, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based	I on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for samples	5 D861, D867 and D882 - D883.	
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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:	09-04-98
Laboratory Number:	09-03-TBN.	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	<b>0</b> 9-03-98
		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	98%		
References:	-	Characteristic Leaching Procedure, S			
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.				
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.		
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	ction 261.24, July 1, 1992.		

Comments:

eunh. Que Analy

Review Stacy W Sendler

#### 

#### 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:	09-04-98
Laboratory Number:	09-01-BN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-01-98
Condition:	Cool and Intact	Date Analyzed:	09-03-98
		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
2,4-Diminuoloidene			

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	98%
References:		haracteristic Leaching Procedure, S ry Funnel Liquid-Liquid Extraction, S	
		natics and Cyclic Ketones, SW-846,	
Note:	Regulatory Limits based	l on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments:

em R. Gjeven

Stacy W Sendler 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:		09-04-98	
Laboratory Number:	D861	Date Sampled:		N/A	
Sample Matrix:	TCLP Extract	Date Received:		N/A	
Preservative:	N/A	Date Extracted:		N/A	
Condition:	N/A	Date Analyzed:		09-03-98	
		Analysis Reque	sted:	TCLP	
	Sample	Duplicate		Det.	
	Result	Result	Percent	Limit	
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)	
Pyridine	ND	ND	0.0%	0.020	
Hexachloroethane	1.27	1.26	1.0%	0.020	
Nitrobenzene	0.93	0.92	0.9%	0.020	
Hexachlorobutadiene	6.19	6.12	1.1%	0.020	
	<b>A A 4</b>	0.00	3.0%	0.020	
2,4-Dinitrotoluene	3.01	2.92	3.0%	0.020	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference
		8090 Compounds	30%
References:	· · · ·	Characteristic Leaching Procedure, S bry Funnel Liquid-Liquid Extraction, S	
	Method 8090, Nitroaror	natics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments:

emh. Gier Analy

Stacy W Sendler Review

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

Acceptance

Range

Client:		QA/QC		Project #:			N/A		
Sample ID:		09-08-TCM QA/QC		A/QC Date Reported:			09-08-98		
Laboratory Number:		D861		Date Sampled:			N/A		
Sample Matrix:		TCLP Extract		Date Received:			N/A		
Analysis Requested:		TCLP Metals		Date Analy:	zed:		09-08-98		
Condition:		N/A		Date Extrac	ted:		09-01-98		
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range		
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Barium	ND	ND	0.001	1.35	1.35	0.1%	0% - 30%		
Cadmium	ND	ND	0.0001	0.0014	0.0014	0.0%	0% - 30%		
Chromium	ND	ND	0.0001	0.0094	0.0095	1.1%	0% - 30%		
Lead	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Selenium	ND	ND	0.0001	0.0004	0.0004	0.0%	0% - 30%		
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		

Spike Spike Sample Spiked Conc. (mg/L) Added Sample

Arsenic	0.1000	ND	0.0998	100%	80% - 120%
Barium	1.000	1.35	2.35	100%	80% - 120%
Cadmium	0.0500	0.0014	0.0512	100%	80% - 120%
Chromium	0.0500	0.0094	0.0592	100%	80% - 120%
Lead	0.1000	ND	0.100	100%	80% - 120%
Mercury	0.0250	ND	0.0249	100%	80% - 120%
Selenium	0.1000	0.0004	0.1002	100%	80% - 120%
Silver	0.0500	ND	0.0498	100%	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 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples D861, D867, D882 - D884.

Analyst

Stacy W Sendler Review

Percent

Recovery

## CHAIN OF CUSTODY RECORD

																the second day of the	
Client / Project Name		•	Project Location								NALYSIS						
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Sampler:		<del>م ا</del>	Client No.		· <u> </u>		· 0							R	emarks	;	
Sampler:	his		64074	-03			No. of Containers	4	a fr	}						<u></u>	<u> </u>
Sample No./	Sample	Sample			Sample		No. of ontaine	lee4	17								
Identification	Date	Time	Lab Number		Matrix		0	0	13								
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CPI- #2		9:35A			50il		1	$\checkmark$	2	-							
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•					(505)	632-0	0615						Cool -	Ice/Blue Ice	V		

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District I - (505) 393-6161       New Mexico         P. O. Box 1980,       Image: Strict II - (505) 393-6161         Hobbs, NM 88241-1980       Image: Strict II - (505) 748-1283         B11 S. First       Energy Image: Strict III - (505) 334-6178         Artesia, NM 88210       2040 South Pacheco Street         D'-trict III - (505) 334-6178       2040 South Pacheco Street         Nio Brazos Road       Santa Fe, New Mexico 87505         Artesi II - (505) 827-7131       Image: Street Street Street	ON Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 💢 Non-Exempt: 🛄	4. Generator CONOCO
Verbal Approval Received: 8/13/98Yes X No D. Foust.	
2. Management Facility Destination Tierra Environmental Land Faci	6. Transporter
3. Address of Facility Operator, 420 C.R. 3100 Aztec, San Juan Coun	8. State New Mexico 87410
7. Location of Material (Street Address or ULSTR) 6/ C. R. 4900	Bloomfield NM 87413
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acc Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acc PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</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: Sulfa Check System - H2 5 treatin Champion - Gas Treat 102	ng/Scrubbing liquid
	IL CON. DAV. DIST. 3
Estimated Volume 300 bb15 gr Known Volume (to be entered by the op	
	EPHONE NO. <u>334-8894</u>
(This space for State Use) APPROVED BY: Demp & Town TITLE: Geolog APPROVED BY: Line Bruch TITLE: 4	DATE: 8/28/98

Date -2-70 # of pages
From Richard Theander
Co. Conoco-Son Juan Adu
Phone # 632 - 4907
Fax# 632-4930

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Conoco IncNG&GP	Tierra Environmental Co., Inc.
San Juan Gas Plant	Tierra Land Farm Faclity
61 CR 4900	420 CR 3100
Bloomfield, NM 87413	Aztec, San Juan County NM 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Same As Above (Generator)	
Attach list of originating sites as appropriate	· · ·
4. Source and Description of Waste	
	·
Sulfa Check System - H2S treating/scr	ubbing liquid
Champion - Gas Treat 102	
	<i>L</i>
For the month of Augus.	
, Richard R. Theander	representative for:
(Print Name)	Le boorber and the Ahma
(Print Name) Conoco, Inc. NG&GP, San Juan Gas Plant according to the Resource Conservation and Recover	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
(Print Name) Conoco, Inc. NG&GP, San Juan Gas Plant according to the Resource Conservation and Recover 1988, regulatory determination, the above described v	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Cheok appropriate classification)
(Print Name) <u>Conoco. Inc. NG&amp;GP. San Juan Gas Plant</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described v <u>xx</u> EXEMPT oilfield waste NON-EXEM	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
(Print Name) <u>Conoco. Inc. NG&amp;GP. San Juan Gas Plant</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described v <u>xx</u> EXEMPT oilfield waste <u>NON-EXEM</u> analysis or	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Cheok appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification
(Print Name) <u>Conoco. Inc. NG&amp;GP. San Juan Gas Plant</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described v <u>xx</u> EXEMPT oilfield waste NON-EXEM	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Cheok appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification hexempt non-hazardous waste defined above.

Number 1 - (505) 393-6161       New Mexico         P.D. Box 1980       Energy Minerals and Natural Resource         Hobbs. NM 88241-1980       Energy Minerals and Natural Resource         Diardex II - (505) 748-1283       Oil Conservation Divisio         S11 5. First       2040 South Pacheco Street         Artesia. NM 88210       2040 South Pacheco Street         Nio Brazos Road       Santa Fe, New Mexico 87505        c, NM 87410       (505) 827-7131	Submit Origina:
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator Ris A ( )ell bernon
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site
2. Management Facility Destination	6. Transporter Rilei
3. Address of Facility Operator 420 C.R. 300 Actor, Sea Juga Cavaly	8. State New Marico
7. Location of Material (Street Address or ULSTR) 708 5. TUCKER	San Jugo County New Marico
9. <u>Circle One</u> :	LAN GOUT LAUNIN, NEW MEXICO
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be according to the contribution of the contred of the contribution of the contribution of the contributio</li></ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Sludge that was generated cleaning oilfield	1 Equipment
DECEIV	
OIL COND l Water from sump approved DISTO 3 to go to sunco Estimated Volume 70 6615 & Known Volume (to be entered by the ope	
wastemanagement FacunyAutionzed Agent	EPHONE NO. 334-8894
(This space for State Use) APPROVED BY: Jeny D. Found TITLE: Geo loc APPROVED BY: A Company TITLE: Sure	DATE: 7/24/98 DATE: 8/27/98

District (- (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 C'trict III - (505) 334-6178 Rio Brazos Road C. ct, NM 87410 District IV - (505) 827-7131 New Mexico Coll Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🕅	4. Generator Big A Well Service
Verbal Approval Received: Yes 🛄 No 🖾	5. Originating Site Farmington Yai d
2. Management Facility Destination	6. Transporter Ruley
3. Address of Facility Operator 420 C. R. 300 Aztec, San Juan County	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 708 5. Tucker	San Juan County New Mexico
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be according to accept oilfield exempt wastes will be according to accept non-exempt wastes must be according to accept non-exempt wastes 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
BRIEF DESCRIPTION OF MATERIAL: Sludge that was generated cleaning oilfield	DECENNED
	OIL CON. DIV. DIST. 3
Estimated Volume 70 6615 ex Known Volume (to be entered by the ope	erator at the end of the haul) —————————— cy
Waste Management Facility Authorized Agent	ental Specialis+DATE: 7-20-98
TYPE OR PRINT NAME: Nobis TEL	EPHONE NO. <u>334-8894</u>
(This space for State Use) APPROVED BY: Demy S. Found TITLE: Geolog	137 DATE: 7/24/98
APPROVED BY: TITLE:	DATE:



### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
BIGAWell Service	STARE TIERRA
	LAND FARM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
BIGA WASH SUMP	7085 TUCKER FARMINGTON, NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Sludge that was GEN APPROP. 7066/s	Reated CLEANING Oil field Equippent
HAL STONE	representative for:
Key Eng Courses (Print Name)	BA Sunco TRucking Co. do hereby certify that,
according to the Resource Conservation and 1 1988, regulatory determination, the above des	Recovery Act (RCRA) and Environmental Protection Agency's July
<b>EXEMPT</b> oilfield waste $X$ NO ana	<b>N-EXEMPT</b> oilfield waste which is non-hazardous by characteristic alysis or by product identification
and that nothing has been added to the exemp	pt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following MSDS Information RCRA Hazardous Waste Ana Chain of Custody	g documentation is attached (check appropriate items): Other (description): alysis
Name (Original Signature):	tone
Title: Ceneral Manager - Truck	KING DIVISION
Data: 7-20-98	

### F.O.R.A BETTER TOMORROW

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

· · · · · · · · · · · · · · · · · · ·		נוסים, אני שניהון שרג גדינהינסי גישילטייים שהציות בריוש יויני ייני. יייייייייייייייייייייייייייייי	
Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-14-98
Lab ID#:	D605	Date Sampled:	07-13-98
Sample Matrix:	Sludge	Date Received:	07-13-98
Preservative:	Cooi	Date Analyzed:	07-13-98
Condition:	Cool & Intact	Chain of Custody:	6159
De Terrer de la constant de	D14		
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 7.34	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criter	ia ····		
Parameter	Hazardous Waste Criteri	ion	
IGNITABILITY:	•	lity as defined by 40 CFR, Subpart C	
	(i.e. Sample ignition upon	n direct contact with flame or flash po	pint < 60° C.)
CORROSIVITY:	Characteristic of Correct	vity as defined by 40 CFR, Subpart C	Soc 261 22
CORROSIVITT.		al to 2.0 or pH greater than or equal t	
REACTIVITY:	Characteristic of Reactiv	ity as defined by 40 CFR, Subpart C,	Sec. 261.23.
	(i.e. Violent reaction with	water, strong base, strong acid, or the gases at STP with pH between 2.0	he generation
Reference:	40 CFR part 261 Subpar	t C sections 261.21 - 261.23, July 1,	1992.
Comments:	B 16 A Sump.		. ·

tacy W Sendler Review

Analyst

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

	Concentration	Detection Limit	Regulatory Limits
Condition:	Cool & Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	07-14-98
Sample Matrix:	Sludge	Date Extracted:	07-13-98
Chain of Custody:	6159	Date Received:	07-13-98
Laboratory Number:	D605	Date Sampled:	07-13-98
Sample ID:	B 16 A Sump	Date Reported:	07-14-98
Client:	Sunco Trucking	Project #:	98065-01

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	0.0198	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	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene Bromofluorobenzene	98% 99%
References:	•	Characteristic Leaching Procedure, d-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.

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

Note:

Comments: **B 16 A Sump.** 

plucen Р. nalvst

Stacy W Sendler Review

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#### EPA METHOD 8040 PHENOLS

Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-16-98
Laboratory Number:	D605	Date Sampled:	07-13-98
Chain of Custody:	6159	Date Received:	07-13-98
Sample Matrix:	Sludge	Date Extracted:	07-13-98
Preservative:	Cool	Date Analyzed:	07-15-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

and a second 
Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	0.056	0.040	200
2,4,6-Trichlorophenol	0.072	0.020	2.0
2,4,5-Trichlorophenol	0.140	0.020	400
Pentachlorophenol	0.451	0.020	100

ND - Parameter not detected at the stated detection limit.

Analyst

98% 100% Procedure Test Methods for Evaluating Solid
Extraction, Test Methods for Evaluating Solid
ating Solid Waste, SW-846, USEPA, Sept. 19
bpart C section 261.24, July 1, 1992.
×.
u

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

Review

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

Client:	Sunco Trucking	Project #:	98065-01	
Sample ID:	B 16 A Sump	Date Reported:	07-16-98	
Laboratory Number:	D605	Date Sampled:	07-13-98	
Chain of Custody:	6159	Date Received:	07-13-98	
Sample Matrix:	Sludge	Date Extracted:	07-13-98	
Preservative:	Cool	Date Analyzed:	07-15-98	
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:

B 16 A Sump.

L.

Stacy W Sendler Review

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

		· · · ·	
Client:	Sunco Trucking	Project #:	98065-01
Sample ID:	B 16 A Sump	Date Reported:	07-15-98
Laboratory Number:	D605	Date Sampled:	07-13-98
Chain of Custody:	6159	Date Received:	07-13-98
Sample Matrix:	Sludge	Date Analyzed:	07-15-98
Preservative:	Cool	Date Extracted:	07-13-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

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

Arsenic	ND	0.0001	5.00
Barium	0.316	0.001	100
Cadmium	0.0038	0.0001	1.00
Chromium	0.0195	0.0001	5.00
Lead	0.0016	0.0001	5.00
Mercury	ND	0.0001	0.200
Selenium	ND	0.0001	1.00
Silver	ND	0.0001	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 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

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

Comments: **B 16 A Sump.** 

Alem R. Que

tacy W Sendler 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:	07-14-98
Laboratory Number:	07-14-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-98
Condition:	N/A	Analysis Requested:	TCLP
		Detection	Regulatory
· · ·	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery	
	. ·	Trifluorotoluene Bromofluorobenzene	100% 100%	
References:	· •	Characteristic Leaching Procedure, nd-Trap, SW-846, USEPA, July 1993	-	

Method 8010, Halogenated Volatile Organic, 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.

Note:

Comments: QA/QC for sample D605.

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Stacy W Sendler Review

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

Client:	QA/QC	, Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-14-98
Laboratory Number:	07-13-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-14-98
Condition:	N/A	Date Extracted:	07-13-98
		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
	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 D605.

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Stacy W Sendler Review

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

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		-		
Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplicate		Date Reported:	07-14-98
Laboratory Number:	D605		Date Sampled:	N/A
Sample Matrix:	TCLP Extract		Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	07-14-98
Condition:	N/A	· ,	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
······································			· · ·	
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND /	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	0.0198	0.0201	0.0001	1.3%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	<b>ND</b>	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 D605.

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tacy W Sendler Review

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

Client:	QAVQC			Project #:		N/A
Sample ID:	Matrix Spike		ł	Date Reported:		07-14-98
Laboratory Number:	D605		t	Date Sampl	ed:	N/A
Sample Matrix:	TCLP Extra	ct	l	Date Receiv	ved:	N/A
Analysis Requested:	TCLP		ſ	Date Analyz	ed:	07-14-98
Condition:	N/A		រ	Date Extrac	ted:	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)	Recover	_ •
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
Chioroform	0.0198	0.050	0.0696	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
	ND	0.050	0.0498	0.0001	99%	59-150 51-147
1,2-Dichloroethane						
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	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 D605.

Analyst

tacy W Sendler 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:	07-16-98
Laboratory Number:	07-15-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-15-98
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 19

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

Comments: QA/QC for sample D605.

Analyst

tacy W Sendler Review



#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-16-98
Laboratory Number:	07-13-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-13-98
Condition:	Cool & Intact	Date Analyzed:	07-15-98
		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 2,4,6-Tribromophenol	99% 99%
References:		, Toxicity Characteristic Leaching Procedur 346, USEPA, July 1992.	e Test Methods for Evaluating Solid
		, Separatory Funnel Liquid-Liquid Extraction 346, USEPA, July 1992.	n, Test Methods for Evaluating Solid
·	Method 8040	, Phenols, Test Methods for Evaluating Sol	id Waste, SW-846, USEPA, Sept. 19
Note:	Regulatory Li	mits based on 40 CFR part 261 subpart C s	section 261.24, July 1, 1992.
Comments:	QA/QC for	sample D605.	
Analyst	R. Qie	Review	Itacy W Sendler



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#### EPA METHOD 8040 PHENOLS Quality Assurance Report

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Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-16-98
Laboratory Number:	D605	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	07-15-98
,		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	0.056	0.056	0.040	0.0%
2,4,6-Trichlorophenol	0.072	0.074	0.020	2.5%
2,4,5-Trichlorophenol	0.140	0.141	0.020	0.7%
Pentachiorophenol	0.451	0.453	0.020	0.5%

ND - Parameter not detected at the stated detection limit.

QA/QC Accer	otance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEP/	haracteristic Leaching Procedure T A, July 1992.	est Methods for Evaluating Solid
	Method 3510, Separator Waste, SW-846, USEP/	y Funnel Liquid-Liquid Extraction, T A, July 1992.	est Methods for Evaluating Solid
	Method 8040, Phenois,	Test Methods for Evaluating Solid V	Vaste, SW-846, USEPA, Sept. 198
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C sec	tion 261.24, July 1, 1992.
Comments:	QA/QC for sample	D605.	
Analyst	- R. Ogierre	Review	acy W Sendler

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

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		•	
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-16-98
Laboratory Number:	07-15-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:	07-15-98
		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:	References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July				
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 19 Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.			n, SW-846, 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 D605.

Analyst

Stacy W Sendler Review

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

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Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-16-98
Laboratory Number:	07-13-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-13-98
Condition:	Cool and Intact	Date Analyzed:	07-15-98
		Analysis Requested	TCI P

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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 3510, Separate	311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. 510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. 090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.		
Note:	Regulatory Limits base	ry Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		

Comments:

QA/QC for sample D605.

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Stacy W Sendler

# PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

		· · ·	
Client:	QAVQC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported	07-16-98
Laboratory Number:	D605	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-15-98
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

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

Note:

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

Comments:

QA/QC for sample D605.

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See 1. 20. 2. 1

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

0.0%

ND

0% - 30%

Acceptance Rance

Client:		QA/QC		Project #:			N/A
Sample ID:		07-15-TCM	QA/QC	Date Repor	ted:		07-15-98
Laboratory Number:		D605		Date Samp	led:		N/A
Sample Matrix:		Sludge		Date Receiv	ved:	• .	N/A
Analysis Requested:		TCLP Metal	ls	Date Analyz	zed:		07-15-98
Condition:		N/A		Date Extrac	ted:	.:	07-13-98
Blank & Duplicate In Conc. (mg/L)	Blank	Blank	Detection Limit		Duplicate	ar Diff.	Acceptance Range
Arsenic Barium	ND ND	ND ND	0.0001	ND 0.316	0.316	0.0% 0.0%	0% - 30%
Barium Cadmium	ND	ND	0.001 0.0001	0.0038	0.316	0.0% 5.3%	0% - 30% 0% - 30%
Chromium	ND	ND	0.0001	0.0195	0.0192	1.5%	0% - 30%
Lead	ND	ND	0.0001	0.0016	0.0016	0.0%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND .	× 0.0%	. 0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

- Spike and Spikes Spikes Sample

ND

ND

0.1000 ND 0.0994 99% 80% - 120% Arsenic 80% - 120% **Barium** 0.316 1.32 100% 1.000 80% - 120% Cadmium 0.0038 0.0537 100% 0.0500 Chromium 0.0500 0.0195 0.0690 99% 80% - 120% 80% - 120% 0.1000 0.0016 0.1015 100% Lead 80% - 120% 100% 0.0249 Mercury 0.0250 ND 80% - 120% Selenium 0.1000 ND 0.0997 100% 80% - 120% Silver 0.0500 ND 0.0499 100%

0.0001

ND - Parameter not detected at the stated detection limit.

References:

Silver

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

ND

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample D605.

Analyst

tacy W Sendler Review

# CHAIN OF CLS ODY RECORD

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Client / Proje				Project Location			- 1				1			AMETE				
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District I - (505) 393-6161 P. O. Box 1930 Hobbs. Nove 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 New Mexico Coil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔯 Non-Exempt: 🛄	4. Generator M.R. Schark
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Fullerow GC#
2. Management Facility Destination TIEREA GW. LAWDIFARM	6. Transporter RIVERSTONE CONST.
3. Address of Facility Operator. 420 CP 3100 Aztec	8. State NM
7. Location of Material (Street Address or ULSTR) 534 TZEN RISW	
9. <u>Circle One</u> :	
<ul> <li>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 accordenerator.</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	
BRIEF DESCRIPTION OF MATERIAL: DECENVED AUG 3 1998 ODL CONS. DUV. DUST. 3	Horise Contramination bydrocarebons te on Separator
Estimated Volume <u>30 yds</u> cy Known Volume (to be entered by the operation of the second signature: <u>Signature</u> TITLE: <u>Favo</u> Signature: <u>Waste Management FacilityAuthorized Agent</u> TITLE: <u>Favo</u> Signature <u>FacilityAuthorized Agent</u> TYPE OR PRINT NAME: <u>Blance</u> <u>Witugans</u> TEL	
(This space for State Use) APPROVED BY: Jenny & Rent TITLE: Geolog APPROVED BY: True Basch TITLE:	DATE: <u>7</u>

# **CERTIFICATE OF WASTE STATUS**

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· · · · · · · · · · · · · · · · · · ·	
1. Generator Name and Address:	2. Destination Name:
M.R. SCHARK	TOERRA ENVIRONMENTAL
	420 CR 3100
	420 CR 3100 Aztoc NM 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
FULLEETON GAS Com # 1-E	5-34; T-28N, R-13W
Attach list of originating sites as appropriate 4. Source and Description of Waste	
GARTIATI	U Pit MATERIAC CONTRAMANDE
With ligh	+ End hydracoperbons Fem
DRip Lin	N Pit Mosteriae Contramination t End hydrocarebows From ow separator
1. John Ahlan	representative for:
(Print Name)	······································
<u>M.R.</u> <u>Schauk</u> according to the Resource Conservation and Recove 1988, regulatory determination, the above described	do hereby certify that, ary Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
<del>4</del> —	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docur MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): Other (description):
Name (Original Signature):	Jahn II
Title: 0//il Managar	
Date: 7 29-98	

Date: _____

Image: Instance II - (505) 393-6161.       New Mexico         Instance II - (505) 748-1283       Energy Minerals and Natural Resource         Instance II - (505) 748-1283       Oil Conservation Divisio         I1 S. First       2040 South Pacheco Street         Instance III - (505) 334-6178       Santa Fe, New Mexico 87505         I Rio Brazos Road       (505) 827-7131	Submit Origin:
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98076
1. RCRA Exempt: 🖸 Non-Exempt: 🔀	4. Generator Hanover Compression
Verbal Approval Received: Yes 🔲 No 🕅	5. Originating Site Farmington Yard
2. Management Facility Destination Tierra Environmental Lundharm	6. Transporter
3. Address of Facility Operator 420 C. R. 3100 Azirc, San Juan County	8. State New Mexico 87410
7. Location of Material (Street Address or ULSTR) 1300 W. Murray Dr.	Farmington San Juan County NM 8740
9. <u>Circle One</u> :	J ,
<ul> <li>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> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL: Compressor 0,1 Contaminated Soil</li> </ul>	n of origin. No waste classified hazardous by
Yard Clean-up Waste Oil from Cleanin	y Compressor
RECEIVED	DECEIVED
Environmental bureau Oil Conservation Division	UL COM. DIV. DIV. 3
Estimated VolumeCO cy Known Volume (to be entered by the op	erator at the end of the haul)
Waste Management Facility Authonized Agent	EPHONE NO. 334-8894
(This space for State Use) APPROVED BY: Demy S. Four TITLE: G-PO/C APPROVED BY: Log	DATE: 7/28/98 DATE: 2/30/98

P.O. Hobb Diarr 811 S Artesi D' tri	at I · (505) 393-6161. Jac 1980 I. NM 88241-1980 It II · (505) 748-1283 First A. NM 88210 It III · (505) 334-6178 Rio Brazor Road NM 87410 It IV · (505) 827-7131 DECOMEET FOR ADDROVAL TO ACCEPT		Form C-138 Originated 8/8/95 Submit Originat Plus 1 Copy to appropriate District Office
Г		1	76
1	. RCRA Exempt: I Non-Exempt: X	4. Generator Hanover	Comperssion
	Verbal Approval Received: Yes 🔲 No 🕅	5. Originating Site Facmic	yoon Yard
2	Management Facility Destination Tierra Environmental Lundherm	6. Transporter	
. 3	Address of Facility Operator 120 C.R. 3100 Azicc San Juan County	8. State New Mexico.	87410
7	Location of Material (Street Address or ULSTR)	Farmington San Juan Cour	
r 1	<u>Circle One</u> :		
	<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acc Generator; one certificate periob.</li> <li>All requests for approval to accept non-exempt wastes must be accepted by the material is not-hazardous and the Generator's certification 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 chemic on of origin. No waste classified	cal analysis to
8	RIEF DESCRIPTION OF MATERIAL: Compressor Oil Contaminated Soil Yard Clean-up Waste Oil from Cleanin	g Compressor	i
	RECEIVED	DECEIVED	
	JUL 2 9 1998 (0) Environmental Bureau Oil Conservation Division	IL CON. DIV. DIM 3	÷
E	timated Volume cy Known Volume (to be entered by the op	erator at the end of the haul)	cy
	GNATURE:	EPHONE NO. 334-88	27-98 74
	This space for State Use) APPROVED BY: Demy S. Rowf TITLE: G-CO/C APPROVED BY: Cog Manda TITLE: Buch	DATE: 7	128/98 126/98

District I - (509) 293-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 11 S. First Artesia, NM 88210 Protect III - (505) 334-6178 NRio Brazos Road Luc, NM 87410 District IV - (505) 827-7131 New Mexico Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Submit Grigna.
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98076
1. RCRA Exempt: 🛄 Non-Exempt: 🔯	4. Generator Hanover Compression
Verbal Approval Received: Yes 🗌 No 🕅	5. Originating Site Farmington Yard
2. Management Facility Destination Tierra Environmental Land face	
3. Address of Facility Operator 420 C. R. 3100 Aztec San Juan County	8. State New Mexico 87410
7. Location of Material (Street Address or ULSTR)	Farmington, San Juan County, NM 8740
9. <u>Circle One</u> :	· · · · · · · · · · · · · · · · · · ·
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept 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> <li>All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Compressor Oil Contaminated Soil Yard Clean-up Waste Oil from Cleanin	ng Compressor
	DECEIVED JUL 2 8 1998 ODL CONL. DOV. DIST. 3
Estimated Volume Cy Known Volume (to be entered by the op	erator at the end of the haul)
SIGNATURE: Anagement FacilityAuthonzed Agent	ntal Specialist DATE: 7-27-98
	EPHONE NO. 334-8894
(This space for State Use) APPROVED BY: Deny & Tour TITLE: Geolo	DC_15T DATE: 7/28/98
APPROVED BY: TITLE:	DATE

# CERTIFICATE OF WASTE STATUS

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1. (	Senerator Name and Address:	2. Destination Name:
	Hanover Compression	Tierra Environmental Corporation
	1280 Troy King Road	P.O. Box 15250
	Farmington, NM 87401	Farmington, NM 87499
3. 0	Driginating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Hanover Compression	1300 W. Murray Drive
		Farmington, NM 87401
	Attach list of originating sites as appropriate	
4. S	Source and Description of Waste	
	ompressor Oil Contaminated Soil.	
Y	ard cleanup waste oil from cleanin	g compressor.
1	Bill Longacre	representative for:
<u>ا،</u>		
	Hanover Compression	do hereby certify that, according
		CRA) and Environmental Protection Agency's July, 1998, regulatory
	e Resource Conservation and Recovery Act (R mination, the above-described waste is: (Chec	CRA) and Environmental Protection Agency's July, 1998, regulatory
	mination, the above-described waste is: (Cheo	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification)
	mination, the above-described waste is: (Check EXEMPT oilfield wasteXXXNO	CRA) and Environmental Protection Agency's July, 1998, regulatory k appropriate classification) ON-EXEMPT oilfield waste which is non-hazardous by characteristic
	mination, the above-described waste is: (Check EXEMPT oilfield wasteXXXNO	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification)
deter	rmination, the above-described waste is: (Chec EXEMPT oilfield wasteXXXNC an	CRA) and Environmental Protection Agency's July, 1998, regulatory k appropriate classification) <b>DN-EXEMPT</b> oilfield waste which is non-hazardous by characteristic alysis or by product identification
deter	rmination, the above-described waste is: (Chec EXEMPT oilfield wasteXXXNC an	CRA) and Environmental Protection Agency's July, 1998, regulatory k appropriate classification) ON-EXEMPT oilfield waste which is non-hazardous by characteristic
and f	EXEMPT oilfield waste $\underline{XXX}$ No an that nothing has been added to the exempt or n	CRA) and Environmental Protection Agency's July, 1998, regulatory of appropriate classification) <b>DN-EXEMPT</b> oilfield waste which is non-hazardous by characteristic alysis or by product identification non-exempt non-hazardous waste defined above.
and f	rmination, the above-described waste is: (Chec EXEMPT oilfield wasteXXXNC an	CRA) and Environmental Protection Agency's July, 1998, regulatory of appropriate classification) <b>DN-EXEMPT</b> oilfield waste which is non-hazardous by characteristic alysis or by product identification non-exempt non-hazardous waste defined above.
deter	EXEMPT oilfield waste $\underline{XXX}$ No an that nothing has been added to the exempt or n	CRA) and Environmental Protection Agency's July, 1998, regulatory ok appropriate classification) <b>DN-EXEMPT</b> oilfield waste which is non-hazardous by characteristic alysis or by product identification non-exempt non-hazardous waste defined above.
deter	TEXEMPT oilfield waste is: (CheckEXEMPT oilfield wasteNCNCNCNC	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification) ON-EXEMPT oilfield waste which is non-hazardous by characteristic halysis or by product identification non-exempt non-hazardous waste defined above. entation is attached (check appropriate items):Other (description):
deter	EXEMPT oilfield waste       XXX_NO         EXEMPT oilfield waste       XXX_NO         Internation of the exempt	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification) ON-EXEMPT oilfield waste which is non-hazardous by characteristic halysis or by product identification non-exempt non-hazardous waste defined above. entation is attached (check appropriate items):Other (description):
deter	TEXEMPT oilfield waste is: (CheckEXEMPT oilfield wasteNCNCNCNC	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification) ON-EXEMPT oilfield waste which is non-hazardous by characteristic halysis or by product identification non-exempt non-hazardous waste defined above. entation is attached (check appropriate items):Other (description):
and f	EXEMPT oilfield waste       XXX_NO         EXEMPT oilfield waste       XXX_NO         Internation of the exempt	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification) <b>DN-EXEMPT</b> oilfield waste which is non-hazardous by characteristic halysis or by product identification non-exempt non-hazardous waste defined above. entation is attached (check appropriate items): Other (description):
and 1	That nothing has been added to the exempt or in the following documMSDS InformationMSDS InformationRCRA Hazardous Waste AChain of Custody	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification) <b>DN-EXEMPT</b> oilfield waste which is non-hazardous by characteristic halysis or by product identification non-exempt non-hazardous waste defined above. entation is attached (check appropriate items): Other (description):
and f	EXEMPT oilfield waste EXEMPT oilfield waste	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification) ON-EXEMPT oilfield waste which is non-hazardous by characteristic halysis or by product identification non-exempt non-hazardous waste defined above. entation is attached (check appropriate items):Other (description):
and 1	EXEMPT oilfield waste EXEMPT oilfield waste	CRA) and Environmental Protection Agency's July, 1998, regulatory ck appropriate classification) <b>DN-EXEMPT</b> oilfield waste which is non-hazardous by characteristic halysis or by product identification non-exempt non-hazardous waste defined above. entation is attached (check appropriate items): Other (description):



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 21-Jul-98

Client: Work Order:	On Site Technol 9806089	ogies, Limited Partnership	Client Sample Info Client Sample II		r Compressor Corp.
Lab ID: Project:	9806089-02A 4-1490	Matrix: SOIL	Collection Dat COC Record		1:52:00 PM
Parameter		Result PQL	Qual Units	DF	Date Analyzed

TPH, T/R SOIL	E418	3.1			Analyst: DC
Petroleum Hydrocarbons, T/R	74000	1200	mg/Kg	50	6/23/98

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

- .. . . . . . 

OFF: (505) 325-5667

Qualifiers:

PQL - Practical Quantitation Limit

OFF: (505) 325-5667



LAB: (505) 325-1556

July 21, 1998

Dion Pete On Site Technologies, Limited Partnership 612 E. Murray Drive P.O. Box 2606 Farmington, NM 87499 TEL: (505) 325-5667 FAX (505) 327-1496

RE: 4-1490

Order No.: 9806089

Dear Dion Pete,

On Site Technologies, LTD. received 2 samples on 6/22/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests: AQPREP SEP FUNNEL: BNA (SW3510) AQPREP TOTAL METALS: ICP (SW3010A) CORROSIVITY by pH (SW9045B) CYANIDE, Reactive (SW7.3.3.2) ICP METALS, TCLP Leached (SW1311/6010A) IGNITABILITY (SW1010) MERCURY, TCLP Leached (SW7470) SEMIVOLATILES, TCLP Leached (SW1311/8270A) SULFIDE, Reactive (SW7.3.4.2) TCLP Sample Prep (Metals) (SW1311) TCLP Sample Prep (Organics) (SW1311) TCLP ZHE (Vol extraction) (SW1311) TPH, T/R Soil (E418.1) VOLATILES, TCLP Leached (SW1311/8240A)

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

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

Sincerely,

P.O. BOX 2606 • FARMINGTON, NM 87499

CTENS CONTRACTOR STATE FOR MENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

**Date:** 21-Jul-98

CLIENT:	On Site Technologies, Limited Partnership	
Project: Lab Order:	4-1490 9806089	CASE NARRATIVE
Lab Order.	3000083	

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

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition. Methods for Chemical Analysis of Waters and Wastes, EPA-600, March 1993.

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

4-1490

**Project:** 

CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9806089

**QC SUMMARY REPORT** 

Method Blank

Date: 21-Jul-98

,

Sample ID: MB-20	Batch ID: 20	Test Code	: <b>E418.1</b> Units:	mg/Kg	Analysis Date 6/23/98 SeqNo: 3392		/98	Prep Date: 6/23/98		
Client ID:	9806089	Run ID:	TPH 1_980623A		SeqNo:	3392				
Analyte	Result	PQL	SPK value SPK Rel	Val %REC		HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, T/R	25	25					·	·		

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

I of I

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806089

**Project:** 4-1490

Sample ID: 9806089-02AD	Batch ID: 20	Test Code:	E418.1	E418.1 Units: mg/Kg Analysis Date 6/23/98			Prep Da	ate: 6/23/98			
Client ID: #2	9806089	Run ID:	TPH 1_98062	23A	SeqNo: 3414						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, T/R	75000	1200	0	0	0.0%	0	0	74020	1.3%	16	

Date: 21-Jul-98

Sample Duplicate

**QC SUMMARY REPORT** 

### Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

### B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

lofl

CLIENT: On Site Technologies, Limited Partnership

 Work Order:
 9806089

 Project:
 4-1490

Date: 21-Jul-98

2

### **QC SUMMARY REPORT**

Sample Matrix Spike

Sample ID: 9806059-17AMS	Batch ID: 20	Test Code	: E418.1	Units: mg/Kg Analysis Date 6/23/98			Prep Da	ate: 6/23/98			
Client ID:	980608 <del>9</del>	Run ID:	TPH 1_98062	3A		SeqNo:	3401				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, T/R	823.5	24	813.7	0	101.2%	80	120				в

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

1 of 1

Work Order:

Petroleum Hydrocarbons, T/R

9806089

On Site Technologies, Limited Partnership **CLIENT:** 

880

25

**QC SUMMARY REPORT** 

Laboratory Control Spike - generic

Project: 4-14	490					Laborato	ry Control	Spike - ger
Sample ID: LCS-20	Batch ID: 20	Test Code: E418.1	Units: mg/Kg		Analysis Date 6/2	3/98	Prep Da	ate: 6/23/98
Client ID:	9806089	Run ID: TPH 1_9806	523A		SeqNo: 339	4		
Analyte	Result	PQL SPK value	e SPK Ref Val	%REC	LowLimit HighLimi	t RPD Ref Val	%RPD	RPDLimit

25

97.2%

89

111

880

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

1 of I

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Date:	21-Jul-98
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CLIENT:	On Site Technologies, Limited Partnership
Work Order:	9806089
Project:	4-1490

## **QC SUMMARY REPORT**

Continuing Calibration Verification Standard

Sample ID: CCV1	Batch ID: 20	Test Code:	E418.1	Units: mg/Kg		Analysis	s Date 6/23/	98	Prep Da	te:
Client ID:	9806089	Run ID:	TPH 1_98062	3A		SeqNo:	3393			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qua
Petroleum Hydrocarbons, T/R	121	25	124	0	97.6%	80	120			
Sample ID: CCV2	Batch ID: 20	Test Code:	E418.1	Units: mg/Kg		Analysis	a Date 6/23/	98	Prep Da	te:
Client ID:	9806089	Run ID:	TPH 1_98062	3A		SeqNo:	3415			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qua
Petroleum Hydrocarbons, T/R	123	25	124	0	99.2%	80	120			
Sample ID: CCV3	Batch ID: 20	Test Code:	E418.1	Units: mg/Kg		Analysis	Date 6/23/	98	Prep Da	te:
Client ID:	9806089	Run ID:	TPH 1_98062	3A		SeqNo:	3416			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qua
Petroleum Hydrocarbons, T/R	244	25	248	0	98.4%	80	120			

Qualifiers:

ND - Not Detected at the Reporting Limit

### B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

1 of 1

## RECEIVED JUL 2 0 1998

# Mountain States Analytical, Inc.

The Quality Solution

July 15, 1998

Mr. David Cox On Site Technologies, Ltd. 612 E Murray Drive Farmington, NM 87401

Reference: Project: Solid Samples MSAI Group: 22927

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

9806089-01A Hanover Compressor #1

All holding times were met for the tests performed on these samples.

If the report is acceptable, please approve the associated invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

16486

Rolf E. Larsen Project Manager





Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd. 612 E Murray Drive Farmington, NM 87401

Attn: Mr. David Cox Project: Solid Samples

Sample ID: 9806089-01A Matrix: Soil MSAI Sample: 82029 MSAI Group: 22927 Date Reported: 07/10/98 Discard Date: 08/09/98 Date Submitted: 06/23/98 Date Sampled: 06/22/98 Collected by: Purchase Order: Project No.:

Test	Analysis	Results as Received	Units	٩	Limit of uantitation
0259T	Mercury by CVAA, TCLP, 7470 Method: SW-846 7470	ND	 mg/l		0.0005
0392N	Mercury Prep CVAA, TCLP, 7470 Method: SW-846 7470	Batch. w139			
0 <b>3</b> 93T	Flame/hrICP Prep, TCLP, 3010A Method: SW-846 3010A	Batch. w389			
13004	Metals by hrICP, TCLP (UTS) Method: SW-846 6010A				
	Arsenic	ND	mg/l		0.08
	Barium	ND	mg/l		1.00
	Cadmium	0.007	mg/l		0.005
	Chromium	ND	mg/l		0.03
	Lead	ND	mg/l		0.08
	Selenium	ND	mg∕l		0.08
	Silver	ND	mg/l .		0.02
0395	Corrosivity, sw, 9045C Method: SW-846 9045C	7.79	Std. Units		0.05
0542	Ignitability, sw Method: MSAI IN HOUSE				
	Ignitable upon water contact	Negative	Degrees F		
	Ignitable by friction	Negative	Degrees F		
	Spontaneously combusts in air	Negative	Degrees F		
	Ignitability	>146	Degrees F	(1)	50
0946	TCLP Extraction, ZHE, sw, 1311 Method: SW-846 1311	100	% Solids		0.001
0947J	TCLP Extraction, hrICP, Metals Method: SW-846 1311	100	% Solids		0.001

10 Years of Quality Service

<u>Corporate Office</u> 1645 West 2200 South, Salt Lake City, Utah 84119 801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278 e-mail: service@msailabs.com Southwest States Region 6223 Bayonne, Spring, Texas 77389 281-320-2842 • FAX 281-320-0989 e-mail: gbrewer@msailabs.com



Mountain States Analytical, Inc.

Page 2

On Site Technologies, Ltd.The Quality SolutionMSAI Sample:82029MSAI Group:22927

Sample ID: 9806089-01A

Test	Analysis	Results as Received	Units	Dilution Factor	Limit of Quantitation
 0947м	TCLP Extraction, Mercury, 1311 Method: SW-846 1311	100	% Solids	1	0.001
0 <b>9</b> 47s	TCLP Extraction, Semi-VOA, 1311 Method: SW-846 1311	100	% Solids	1	0.001
1121	Reactivity, (Cyanide & Sulfide)sw Method: SW-846 CHAPTER 7.3				
	Cyanide (reactive)	ND	mg/kg	1	50
	Sulfide (reactive)	ND	mg/kg	1	120
0949	Semi-VOA, TCLP Method: SW-846 8270A				
	2,4-Dinitrotoluene	ND	mg/l	1	0.0400
	Hexachlorobenzene	ND	mg/l	1	0.0400
	Hexachlorobutadiene	ND	mg/l	1	0.0400
	Hexachloroethane	ND	mg/l	1	0.0400
	Nitrobenzene	ND	mg/l	1	0.0400
	Pyridine	ND	mg/l	1	0.0400
	2-Methylphenol (o-Cresol)	ND	mg/l	1	0.100
	3 and 4- Methylphenol (m+p cresol)	ND	mg/l	1	0.100
	Pentachlorophenol	ND	mg/l	1	0.100
	2,4,5-Trichlorophenol	ND	mg/l	1 .	0.100
	2,4,6-Trichlorophenol	ND	mg/l	1	0.100
3000T	SVOA Extraction, TCLP Method: SW-846 3510B	Complete		1	
0948	Volatiles, TCLP 8260A, sw Method: SW-846 8260A				
	Benzene	ND	mg/l	10	0.050
	Carbon tetrachloride	ND	mg/l	10	0.050
	Chlorobenzene	ND	mg/l	10	0.050
	Chloroform	ND	mg/l	10	0.050
	1,2-Dichloroethane	ND	mg/l	10	0.050
	1,1-Dichloroethene	ND	mg/l	10	0.050
	2-Butanone (MEK)	ND	mg/l	10	0.250
	Tetrachloroethene	ND	mg∕l	10	0.050
	Trichloroethene	ND	mg∕l	10	0.050

10 l Jears of Quality Service

1645 West 2200 South, Salt Lake City, Utah 84119 801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278 e-mail: service@msailabs.com Southwest States Region 6223 Bayonne, Spring, Texas 77389 281-320-2842 • FAX 281-320-0989 e-mail: gbrewer@msailabs.com



Page 3



On Site Technologies, Ltd. The Quality Solution MSAI Sample: 82029 MSAI Group: 22927 Sample ID: 9806089-01A Results Dilution Limit of

Test	Analysis	as Received	Units	Factor	Quantitation
0948	Volatiles, TCLP 8260A, sw				
	Method: SW-846 8260A	•			x
	Vinyl chloride	· ND	mg/l	10	0.050
	1,4-Dichlorobenzene	ND	mg/l	10	0.050

(1) Sample did not flash up to 146 F.

ND - Not detected at the Limit of Quantitation.

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

> Respectfully Submitted, Reviewed and Approved by:

Rolf E. Larsen Project Manager



Corporate Office 1645 West 2200 South, Salt Lake City, Utah 84119 801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278 e-mail: service@msailabs.com Southwest States Region 6223 Bayonne, Spring, Texas 77389 281-320-2842 • FAX 281-320-0989 e-mail: gbrewer@msailabs.com



Page '1

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### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Sequence :

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06/30/98 08:38:01 Group: 22927

Analysis Batch Number: 0395 -06/26/98-157 -1 Test Identification : 0395 -Corrosivity, sw, 9045C Number of Samples : 2 Batch Data-Date/Time : 06/29/98 / 12:38:48

DUPLICATE	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
22817-81551	pH of soil slurry	7.4200	7.4100	0.1	1.4	1.00
CONTROL					QC LI	MITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	<u>% REC #</u>	LOWER U	JPPER
LCS-1	pH of soil slurry	4.0100	4.0000	100.3	97.1	104.1
LCS-2	pH of soil slurry	4.0300	4.0000	100.8	97.1	104.1

#### Groups & Samples

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22817-81551 22876-81795 22927-82029

Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Sequence :

.

06/30/98 08:38:03 Group: 22927

Analysis Batch Number: 0542 -06/24/98-038 -1 Test Identification : 0542 -Ignitability, sw Number of Samples : 1 Batch Data-Date/Time : 06/25/98 / 15:25:09

 CONTROL
 QC LIMITS

 SAMPLE#
 ANALYTE
 CONC FOUND
 CONC KNOWN
 % REC #
 LOWER UPPER

 STD-1
 Ignitability
 85.0000
 81.0000
 104.9
 96.7
 106.1

Groups & Samples

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22927-82029

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Page

Page 1

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### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

06/30/98 08:38:06 Group: 22927

Analysis Batch Number:1121 -06/25/98-147 -1Test Identification :1121 -Reactivity, (Cyanide & Sulfide)swSequence :Number of Samples :8Batch Data-Date/Time :06/29/98 / 10:24:42

BLANK#	ANALYTE	CONC_FOUND #	CONC LIMIT
BLK-1	Cyanide (reactive)	0.8760	10.0000
BLK-1-2	Cyanide (reactive)	ND	10.0000

DUPLICATE						
SAMPLE#	ANALYTE		RESULT 2	RPD #	LIMIT	DILUTION
STD-1	Cyanide (reactive)	3.6500	3.5000	4.2	20.0	1.00
STD-1-2	Cyanide (reactive)	0.4170	0.4170	0.0	20.0	1.00
CONTROL					QC LI	MITS
SAMDIE#	ANALYTE	CONC. FOUND	CONC KNOUN	9 PEC #		

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	<u>% REC #</u>	LOWER UPPER
STD-1	Cyanide (reactive)	3.6500	300.0000	1.2	0.0 77.7
STD-1-2	Cyanide (reactive)	0.4170	300.0000	0.1	0.0 77.7

Groups & Samples

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22859-81734 22859-81735 22876-81795 22927-82029

### 1A ANICS ANALYSIS DATA SHEET VOLATILE

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Lab Name: MOUNTAIN ST	ATES	Contract:		Γ.	/BLK1
Lab Code: MSAI C	ase No.:	SAS No.:	SDG	No.: 9	80707WL
Matrix: (soil/water)	WATER	I	Lab Sample ID:	98070	7WB
Sample wt/vol:	5.000 (g/ml) ML	. I	Lab File ID:	X4870	I
Level: (low/med)	LOW	Γ	Date Received:		
% Moisture: not dec.	<u></u>	Ι	Date Analyzed:	07/07	/98
Column: (pack/cap) C	AP	I	Dilution Facto	or: 1.0	
CAS NO.	COMPOUND		TRATION UNITS: or ug/Kg) ug/L		Q
$\begin{array}{c} 74-87-3\\ 75-01-4\\ 74-83-9\\ 75-00-3\\ 75-00-3\\ 75-35-4\\ 75-35-4\\ 75-35-4\\ 75-15-0\\ 108-05-4\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 75-34-3\\ 79-01-6\\ 79-01-6\\ 79-01-6\\ 79-01-6\\ 79-00-5\\ 108-88-3\\ 10061-01-5\\ 108-88-3\\ 108-10-1\\ 79-00-5\\ 127-18-4\\ 124-48-1\\ 108-90-7\end{array}$	1,1-Dichloroet Methylene Chlo Carbon Disulfi trans-1,2-Dich Vinyl Acetate 1,1-Dichloroet 2-Butanone cis-1,2-Dichloroet Chloroform 1,1,1-Trichlor Carbon Tetrach 1,2-Dichloroet Benzene Trichloroethen 1,2-Dichloropr Bromodichlorom -2-Chloroethyl cis-1,3-Dichlo Toluene trans-1,3-Dichlo Toluene trans-1,3-Dichlor 4-Methyl-2-Pen 2-Hexanone Tetrachloroeth Dibromochlorom Chlorobenzene Ethylbenzene	hene ride de loroethene nane oethane hane e opane ethane Vinyl Ether ropropene loroproper oethane tanone ene		$\begin{array}{c} 5\\ 10\\ 10\\ 10\\ 20\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

 VOLATILE ANICS ANALYSIS DATA S	SHEET	EPA S	SAMPLE NO.
Lab Name: MOUNTAIN STATES Contract	::	. V	BLK1
	,		
Lab Code: MSAI Case No.: SAS No.	.: SDG	NO.: 9	80707WL
Matrix: (soil/water) WATER	Lab Sample ID:	98070	7WB
Sample wt/vol: 5.000 (g/ml) ML	Lab File ID:	X4870	
Level: (low/med) LOW	Date Received:		
% Moisture: not dec.	Date Analyzed:	07/07	/98
Column: (pack/cap) CAP	Dilution Facto	r: 1.0	
•	ENTRATION UNITS:		
CAS NO. COMPOUND (ug/I	or ug/Kg) ug/L	1	Q
95-47-6o-Xylene         100-42-5Styrene         75-25-2Bromoform         140-88-5Ethyl Acrylate         79-34-5Ethyl Acrylate         79-34-5Ethyl Acrylate         79-34-5Ethyl Acrylate         79-34-5	Dane	5 5 5 5 5 5 5 5	מממממממממממממממממממממממ

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1/87 Rev.

### LA, , VOLATILE JANICS ANALYSIS DATA SHEET

Lab Name: MOUNTAIN STATES

Sample wt/vol: 5.000 (g/ml) ML

Case No.:

COMPOUND

Lab Code: MSAI

Matrix: (soil/water) WATER

Level: (low/med) LOW

% Moisture: not dec.

Column: (pack/cap) CAP

CAS NO.

Contract:

. VBLK1

SAS No.: SDG No.: 980707WL

Lab Sample ID: 980707WB

Lab File ID: X4870

Date Received:

Date Analyzed: 07/07/98

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

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#### 2A WATL OLATILE SURROGATE RECOVERY

Lab Code: MSAI Case No.:

Lab Name: MOUNTAIN STATES

Contract:

SAS No.:

SDG No.: 980707WL

	EPA	S1	S2	S3	OTHER	TOT
	SAMPLE NO.	(TOL) #	(BFB)#	(DCE) #		OUT
	============	======	======	======	======	====
01	VBLK1	95	93	99		0
02	VBLK1LCS	95	95	102		0
03	VBLK1LCSD	96	95	101		0
04	0623BLK	96	95	97		0
05	CYNE-A	97	97	104		0
06	CYSW-A	97	96	105		0
07	TRIPBLK	97	93	102		0
08	6089	97	92	104		0
09	6089MS	95	94	101		0
10	6089MSD	95	96	101		0
11	SAMPLE06022	94	95	104		0
12	TRUCK	97	96	103		0
13	WASTEWATER	95	94	96		0
14	421-3	98	96	105		0
15	IDMA	96	95	106		0
16	IDMH	96	96	108		0
17	1093-2	95	96	106	*****	0
18	1091-2	97	97	110		0
19	CPDYL	96	97	104		0
20	0626BLK	95	96	107	· .	0
21						
22						
23						
24						
25						
26						
27						
28						
29	•					
30						

QC LIMITS (68-131) S1 (TOL) = Toluene-d8 (67-132)

S2 (BFB) = Bromofluorobenzene S3 (DCE) = 1, 2-Dichloroethane-d4 (77-138)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

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FORM II VOA-1

1/87 Rev.

	WATER VOLATILE	MAL _ SPIKE/MATR	IX SPIKE DUPLIC	, RECOVERY
La	ab Name: MOUNTAIN	STATES	Contract:	
La	ab Code: MSAI	Case No.:	SAS No.:	SDG No.: 980707WL
Ma	atrix Spike - EPA	Sample No.: 6089		

• 3A •

COMPOUND	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	AMOUNT	AMOUNT	%	LIMITS
	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	20.0 20.0 20.0 20.0 20.0 20.0	0.00 0.00 0.00 0.00	18.7 19.7 19.6 18.7 21.2	94 98 98 94 106	===== 68-132 82-130 72-124 77-129 74-122

COMPOUND	SPIKE ADDED (ug/L)	MSD AMOUNT (ug/L)	MSD % REC #	% RPD #	QC LI RPD	IMITS REC.
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	20.0 20.0 20.0 20.0 20.0 20.0	19.2 20.2 20.0 19.0 21.3	96 101 100 95 106	2 3 2 1 0	16 11 14 12 12	68-132 82-130 72-124 77-129 74-122

# Column to be used to flag recovery and RPD values with an asterisk

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* Values outside of QC limits

RPD: 0 out of 5 outside limits Spike Recovery: 0 out of 10 outside limits

COMMENTS:

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WATER	JLATILE	LAB	CONTROL	SAMPLE

Lab Name: MO	UNTAIN STATES	Contract:	
Lab Code: MS	AI Case No.:	SAS No.:	SDG No.: 980707WL
Matrix Spike	- Sample No.: vblk1		

COMPOUND	SPIKE	SAMPLE	LCS	LCS	QC.
	ADDED	AMOUNT	AMOUNT	%	LIMITS
	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	20.0 20.0 20.0 .20.0 .20.0 20.0	0.00 0.00 0.00 0.00 0.00	18.2 18.3 18.1 17.6 19.0	91 92 90 88 95	74-126 81-125 78-122 88-119 75-123

COMPOUND	SPIKE ADDED (ug/L)	LCSD AMOUNT (ug/L)	LCSD % REC #	% RPD #	QC LI RPD	IMITS REC.
1,1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	20.0 20.0 20.0 20.0 20.0 20.0	19.1 19.9 20.1 19.0 20.7	96 100 100 95 104	5 8 10 8 9	13 11 12 9 12	===== 74-126 81-125 78-122 88-119 75-123

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits Spike Recovery: 0 out of 10 outside limits

COMMENTS:

### 1B' ' SEMIVOLATIL_ JRGANICS ANALYSIS DATA SHEL

98-95-3----Nitrobenzene

110-86-1----Pyridine

87-68-3-----Hexachlorobutadiene

121-14-2----2,4-Dinitrotoluene

118-74-1-----Hexachlorobenzene 87-86-5-----Pentachlorophenol

88-06-2----2,4,6-Trichlorophenol 95-95-4----2,4,5-Trichlorophenol

2

EPA SAMPLE NO.

10.0 U

10.0 U

25.0 U 25.0 U

10.0 U

10.0U

25.0 U 10.0 U

Lab Name: MOUNTAIN STATES	Contract: 0698AM	B
Lab Code: MSAI Case No.:	SAS No.: SDG No.: 98070	1C
Matrix: (soil/water) WATER	Lab Sample ID: 82177	
Sample wt/vol: 1000 (g/mL)	ML Lab File ID: X3980	
Level: (low/med) LOW	Date Received:	
% Moisture: decanted: (Y,	N) Date Extracted:	
Concentrated Extract Volume: 10	Doo(uL) Date Analyzed: 07/01/98	
Injection Volume: 1.0(uL)	Dilution Factor: 1.0	
GPC Cleanup: (Y/N) N pH:	7.0	
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q	
95-48-72-Methylphe N00195003 and 4-Met 67-72-1Hexachloroe	hylphenol 25.0 U	

### WATER S. JOLATILE SURROGATE RECOVER.

Lab	Name:	MOUNTAIN	STATES	Contract:	· · ·	· . · ·
Lab	Code:	MSAI	Case No.:	SAS No.:	SDG No.:	980713A

1	EPA	S1	S2	S3	<u>C</u> 4	S5	S6	<u> </u>	<u> </u>	TOT
	SAMPLE NO.				S4			S7	S8	
	SAMPLE NO.	(2FP)#	(PHL)#	(NBZ)#	(FBP)#	(TBP) #	(TPH)#	#	#	OUT
01	9806089	50	36	63	60	<u> </u>	<u> </u>			====
02	MW40A	50 74	56 64	77	72	86	83			0
03	DUPB	72	64 64	75	66	76	80	<u> </u>		0
04	MW56	72	63	74	65	75	80			0
05	MW74	72	66	74	68	76	83	·		0
06	MW53	. 72	64	78	67	80	84			o
07	CYNEA	40	42	59	57	32	68	<u></u>	<u>_</u>	
08	CYSWA	40	42	10*	57	51	42			0 1
09	CYNWA	40	40	4*	51	45	42 58		<u> </u>	1
10	CBSEAA	53	41	60	51	56	58 68	<u> </u>		0
11	MW22	51	39	71	69	68	86			0
12	TBLK0624	59	44	75	70	80	84			0
13	TBLK0622	59	43	71	69	78	86			o
14	IDERCO22		45	/ 1	60	/0	80			
15										. <u> </u>
16				·						
17				<u> </u>						
18							<u> </u>		<u> </u>	
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S2 S3 S4	(PHL) (NBZ) (FBP)	H H H	2-Fluorophenol Phenol-d6 Nitrobenzene-d5 2-Fluorobiphenyl	QC LIMITS (21-110) (10-110) (35-114) (43-116) (10-123)
S5	(TBP)	=	2,4,6-Tribromophenol Terphenyl-d14	(10-123) (33-141)

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

page 1 of 1

FORM II SV-1

OLM03.0

### FORM 3 WATER SEMIVOLATILE LAB CONTROL SAMPLE

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Lab Name: MOUNTAIN STATES Contract: Lab Code: MSAI Case No.: SAS No.: SDG No.: 980701C Matrix Spike - Sample No.: 0698AMB

- - ------

SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
100	0.00	64.6	65	5-112
100	0.00	69.7	70	23-134
100	0.00	69.2	69	20-124
100	0.00	78.9	79	1-230
100	0.00	82.2	82	44-142
100	0.00	81.6	82	22-147
100	0.00	88.6	89	47-145
100	0.00	81.7	82	1-132
100	0.00	90.0	90	39-139
100	0.00	92.4	92	14-176
100	0.00	80.6	81	52-115
	ADDED (ug/L) 100 100 100 100 100 100 100 100 100	ADDED (ug/L)         CONCENTRATION (ug/L)           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00           100         0.00	ADDED (ug/L)         CONCENTRATION (ug/L)         CONCENTRATION (ug/L)           100         0.00         64.6           100         0.00         69.7           100         0.00         69.2           100         0.00         78.9           100         0.00         82.2           100         0.00         81.6           100         0.00         81.7           100         0.00         90.0           100         0.00         92.4	ADDED (ug/L)         CONCENTRATION (ug/L)         CONCENTRATION (ug/L)         % REC #           100         0.00         64.6         65           100         0.00         69.7         70           100         0.00         69.2         69           100         0.00         78.9         79           100         0.00         82.2         82           100         0.00         81.6         82           100         0.00         81.7         82           100         0.00         90.0         90           100         0.00         92.4         92

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #		IMITS
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitrosodi-N-propylami 1,2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene	100 100 100 100 100 100 100 100 100 100	61.1 66.1 71.6 73.4 84.2 76.5 88.3 80.2 89.4 93.2 78.5	61 66 72 73 84 76 88 80 89 93 78	6 6 4 8 2 8 1 2 1 1 4	42 40 28 38 28 42 31 50 38 50 31	5-112 $23-134$ $20-124$ $1-230$ $44-142$ $22-147$ $47-145$ $1-132$ $39-139$ $14-176$ $52-115$

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits Spike Recovery: 0 out of 22 outside limits

COMMENTS:

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### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Sequence : 02591-1

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07/09/98 17:54:29 Group: 22927

Analysis Batch Number: 0259T-07/09/98-107 -1 Test Identification : 0259T-Mercury by CVAA, TCLP, 7470 Number of Samples : 30 Batch Data-Date/Time : 07/09/98 / 16:58:20

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT
PBW1-139	Mercury	-0.0060	0.1000
PBW2-139-2	Mercury	-0.0290	0.1000
PBW1-140-3	Mercury	-0.0380	0.1000
PBW2-140-4	Mercury	-0.0440	0.1000

SPIKE						QC	LIMITS
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	<u>% REC #</u>	LOWER	UPPER
22865-81743	Mercury	25.0000	-0.0110	24.8300	99.4	80.0	115.0
22865-81743-2	Mercury	25.0000	-0.0110	11.7950	47.2(2b)	50.0	150.0
22940-82066-3	Mercury	25.0000	-0.0390	17.3700	69.6	50.0	150.0
22839-81649-4	Mercury	25.0000	0.0360	25.0750	100.2	80.0	115.0
22839-81649-5	Mercury	25.0000	0.0360	16.3000	65.1	50.0	150.0
22838-81646-6	Mercury	25.0000	-0.0170	22.0400	88.2	80.0	115.0

MSD QC LIMITS							
SAMPLE# ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	<u>%REC2 #</u>	LOWER UPPER	RPD #	LIMIT
22865-81743 Mercury	25.0000	-0.0110	24.6400	98.6	<b>80.</b> 0 115.0	0.8	20.0
22839-81649-2 Mercury	25.0000	0.0360	24.5800	98.2	80.0 115.0	2.0	20.0

DUPLICATE						
SAMPLE#	ANALYTE	 RESULT_1	RESULT_2	<u></u>	LIMIT	DILUTION
22865-81743	Мегсигу	-0.0110	-0.0500	127.9(11)	20.0	1.00
22839-81649-2	Mercury	0.0360	0.0540	40.0(11)	20.0	1.00

CONTROL					QC LIMITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	<u>% REC #</u>	LOWER UPPER
LCSW-139	Mercury	2.4460	2.5000	97.8	80.0 115.0
LCSW-140-2	Мегсигу	2.4700	2.5000	98.8	80.0 115.0

			QC LIMITS			
<u>CCV #</u>	ANALYTE	TRUE VALUE	BATCH READ	<u>% REC #</u>	LOWER UPPER	
ICV-	Mercury	3.0000	3.1450	104.8	90.0 110.0	
CCV2	Mercury	5.0000	4.8790	97.6	80.0 120.0	
CCV3	Mercury	5.0000	4.8930	97.9	80.0 120.0	
CCV4	Mercury	5.0000	4.8920	97.8	80.0 120.0	
CCV5	Mercury	5.0000	4.9780	99.6	80.0 120.0	
CCV6	Mercury	5.0000	4.9460	98.9	80.0 120.0	
CCV7	Mercury	5.0000	4.9430	98.9	80.0 120.0	
CCV8	Mercury	5.0000	4.9740	99.5	80.0 120.0	
CCV9	Mercury	5.0000	4.9360	98.7	80.0 120.0	

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
ICB-	Mercury	0.0080	0.1000
CCB-	Mercury	-0.0040	0.1000
CCB-	Mercury	-0.0200	0.1000
CCB-	Mercury	-0.0270	0.1000
CCB-	Mercury	-0.0220	0.1000
CCB-	Mercury	-0.0300	0.1000
CCB-	Mercury	-0.0450	0.1000
CCB-	Mercury	-0.0620	0.1000

### Mountain States Analytical, Inc. Daily GC Batching Data Data Released for Reporting

07/09/98 17:54:30 Group: 22927

Analysis Batch Number: 0259T-07/09/98-107 -1 Test Identification : 0259T-Mercury by CVAA, TCLP, 7470 Number of Samples : 30 Batch Data-Date/Time : 07/09/98 / 16:58:20

Sequence : 0259T-1

<u>CCB#</u>	ANALYTE	CONC FOUND #	CONC LIMIT
CCB-	Mercury	-0.0540	0.1000

----- Result Footnotes -----

(2b) - The action limit for pre-pres TCLP spike recov is <50% & the sample 80-100% of reg limit (11) - The duplicate results cannot be evaluated because both results are <MDL.

	ples	. <b>-</b>					
22830-81629	22838-81646	22839-81647	22839-81648	22839-81649	22839-81650	22839-81651	22839-81652
22839-81653	22839-81654	22839-81655	22865-81743	22923-82005	22923-82006	22923-82007	22923-82008
22927-82029	22937-82061	22940-82066	22989-82264	22989-82265	22995-82277	23038-82482	23038-82483
23038-82484	23047-82520	23048-82522	23049-82524	23050-82526	• •		

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### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Sequence : DATR181

07/09/98 17:54:30 Group: 22927

Analysis Batch Number: HREXT-07/01/98-061 -3 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 12 Batch Data-Date/Time : 07/02/98 / 16:35:58

BLANK# CONC FOUND # CONC LIMIT ANALYTE PBW1-389 0.0001 0.0030 Silver 0.0150 Arsenic ND 0.0020 Barium 0.0006 0.0003 Beryllium ND Cadmium 0.0002 0.0010 Chromium 0.0009 0.0050 0.0050 Copper 0.0012 Nickel 0.0002 0.0150 0.0011 0.0150 Lead 0.0076 0.0200 Antimony 0.0150 Selenium 0.0110 Thallium 0.0069 0.0080 Vanadium 0.0003 0.0040 Zinc 0.0124 0.0150 PBW2-389-2 0.0006 Silver 0.0030 0.0150 Arsenic ND 0.0009 0.0020 Barium Beryllium ND 0.0003 Cadmium 0.0010 ND Chromium 0.0011 0.0050 Copper 0.0028 0.0050 Nickel ND 0.0150 0.0150 0.0029 Lead 0.0200 Antimony ND 0.0150 Selenium 0.0064 0.0080 Thallium ND 0.0040 Vanadium 0.0005 Zinc 0.0089 0.0150

SPIKE						QC	LIMITS
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	<u>% REC #</u>	LOWER	UPPER
22963-82202	Silver	0.5000	0.0080	0.2340	45.2(2c)	80.0	120.0
	Arsenic	5.0000	19.3454	24.2444	98.0	80.0	120.0
	Barium	10.0000	0.0364	9.4555	94.2	80.0	120.0
	Beryllium	0.0250	0.0009	0.0232	88.9	80.0	120.0
	Cadmium	0.2500	0.0067	0.2161	83.7	<b>80</b> .0	120.0
	Chromium	1.0000	0.2108	1.1397	92.9	<b>80.</b> 0	120.0
	Copper	0.5000	0.0387	0.4886	90.0	80.0	120.0
	Nickel	5.0000	0.0305	4.5299	90.0	80.0	120.0
	Lead	0.5000	-0.0090	0.4154	84.9	80.0	120.0
	Antimony	2.5000	0.0106	2.4824	98.9	80.0	120.0
	Selenium	0.2500	0.0418	0.2520	84.1	80.0	120.0
	Thailium	0.1000	-0.0045	0.0872	91.7	80.0	120.0
	Vanadium	0.1000	0.4005	0.4950	94.5	80.0	120.0
	Zinc	5.0000	0.0616	4.9864	98.5	80.0	120.0
22963-82202-2	Silver	0.5000	0.0080	0.2686	52.1(2c)	80.0	120.0
	Arsenic	5.0000	19.3454	24.4324	101.7	80.0	120.0
	Barium	10.0000	0.0364	9.3668	93.3	80.0	120.0
	Beryllium	0.0250	0.0009	0.0235	90.2	80.0	120.0
	Cadmium	0.2500	0.0067	0.2156	83.5	80.0	120.0

#### Page

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#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Sequence : DATR181

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07/09/98 17:54:30 Group: 22927

325

Analysis Batch Number: HREXT-07/01/98-061 -3 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 12 Batch Data-Date/Time : 07/02/98 / 16:35:58

SPIKE						00	LIMITS		
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	<u>% REC #</u>	LOWER			
22963-82202-2		1.0000	0.2108	1.1247	<u>91.4</u>	80.0			
	Соррег	0.5000	0.0387	0.4894	90.1	80.0			
	Nickel	5.0000	0.0305	4.4728	88.8	80.0			
	Lead	0.5000	-0.0090	0.4139	84.6	80.0			
	Antimony	2.5000	0.0106	2.4544	97.8	80.0			
	Selenium	0.2500	0.0418	0.2444	81.0	80.0			``
	Thallium	0.1000	-0.0045	0.0876	92.0	80.0			
	Vanadium	0.1000	0.4005	0.5016	101.1	80.0			
	Zinc	5.0000	0.0616	4.8832	96.4	80.0			
22940-82066-3		0.5000	-0.0055	0.4112	83.3	80.0			
	Arsenic	5.0000	-0.0029	4.9464	99.0	80.0			
	Barium	10.0000	0.1472	9.4777	93.3	80.0			
	Beryllium	0.0250	0.0179	0.0426	98.7	80.0			
	Cadmium	0.2500	0.0023	0.2289	90.7	80.0	120.0		
	Chromium	1.0000	0.0139	0.9688	95.5	80.0			
	Copper	0.5000	69.1841	66.0374	-629.3(2a)	80.0			
	Nickel	5.0000	0.0650	4.6969	92.6	80.0			
	Lead	0.5000	0.0196	0.4744	91.0	80.0			
	Antimony	2.5000	0.0003	2.5118	100.5	80.0	120.0		
	Selenium	0.2500	0.0103	0.2534	97.3	80.0	120.0		
	Thallium	0.1000	-0.0031	0.0931	96.2	80.0	120.0		
	Vanadium	0.1000	-0.0166	0.0844	100.9	80.0	120.0		
	Zinc	5.0000	0.1280	5.1040	99.5	80.0	120.0		
MSD						QC L1	TMITS		
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	<u>%REC2</u> #		UPPER	RPD #	LIMIT
22963-82202	Silver	0.5000	0.0080	0.4285	84.1		120.0	58.7(2c)	
	Arsenic	5.0000	19.3454	25.5848	124.8(2c)		120.0	5.4	20.0
	Barium	10.0000	0.0364	9.8893	98.5		120.0	4.5	20.0
	Beryllium	0.0250	0.0009	0.0249	95.8		120.0	7.2	20.0
	Cadmium	0.2500	0.0067	0.2261	87.7		120.0	4.5	20.0
	Chromium	1.0000	0.2108	1.1846	97.4		120.0	3.9	20.0
	Соррег	0.5000	0.0387	0.5088	94.0		120.0	4.0	20.0
	Nickel	5.0000	0.0305	4.8379	96.1	80.0	120.0	6.6	20.0
	Lead	0.5000	-0.0090	0.4375	89.3		120.0	5.2	20.0
	Antimony	2.5000	0.0106	2.5945	103.4	80.0	120.0	4.4	20.0
	Selenium	0.2500	0.0418	0.2618	88.0	80.0	120.0	3.8	20.0
	Thallium	0.1000	-0.0045	0.0879	92.4	80.0	120.0	0.8	20.0
	Vanadium	0.1000	0.4005	0.5235	123.0(2c)	80.0	120.0	5.6	20.0
	Zinc	5.0000	0.0616	5.1849	102.5	80.0	120.0	3.9	20.0
		RESULT_1	RESULT 2						
SAMPLE# 22963-82202	ANALYTE Silver	0.0080	0.0008		20.0 1.0				
22703-02202	Arsenic	19.3454	19.9168		20.0 1.0				
	Barium	0.0364	0.0297		20.0 1.0				
	Beryllium	0.0009	0.0010		20.0 1.0				
	Cadmium	0.0067	0.0068		20.0 1.0				
			υ	0.7	0.0				
	Chromium	0.2108	0.0008		20.0 1.0				anE

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#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

Analysis Batch Number: HREXT-07/01/98-061 -3 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 12 Batch Data-Date/Time : 07/02/98 / 16:35:58

Sequence : DATR181

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	<u></u>	LIMIT	DILUTION
22963-82202	Copper	0.0387	0.0389	0.5	20.0	1.00
	Nickel	0.0305	0.0299	2.0	20.0	1.00
	Lead	-0.0090	0.0000	200.0(11)	20.0	1.00
	Antimony	0.0106	0.0151	35.0(11)	20.0	1.00
	Selenium	0.0418	0.0209	66.5(5a)	20.0	1.00
	Thallium	-0.0045	0.0000	200.0(11)	20.0	1.00
	Vanadium	0.4005	0.4110	2.6	20.0	1.00
	Zinc	0.0616	0.0557	10.1	20.0	1.00

CONTROL					QC LIMITS
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	<u>% REC #</u>	LOWER UPPER
LCSW-389	Silver	0.0520	0.0500	104.0	80.0 120.0
	Arsenic	2.0515	2.0000	102.6	80.0 120.0
	Barium	2.0941	2.0000	104.7	80.0 120.0
	Beryllium	0.0538	0.0500	107.5	80.0 120.0
	Cadmium	0.0524	0.0500	104.9	80.0 120.0
	Chromium	0.2143	0.2000	107.1	80.0 120.0
	Copper	0.2635	0.2500	105.4	80.0 120.0
	Nickel	0.5311	0.5000	106.2	80.0 120.0
	Lead	0.5224	0.5000	104.5	80.0 120.0
	Antimony	1.0818	1.0000	108.2	80.0 120.0
	Selenium	2.0845	2.0000	104.2	80.0 120.0
	Thallium	2.0339	2.0000	101.7	80.0 120.0
	Vanadium	0.5459	0.5000	109.2	80.0 120.0
	Zinc	0.5462	0.5000	109.2	80.0 120.0

				90	LIMITS
<u>CCV</u> #	ANALYTE	TRUE VALUE	BATCH READ	<u>% REC #</u>	LOWER UPPER
ICV-	Silver	0.1000	0.0921	92.1	90.0 110.0
	Arsenic	0.4000	0.3844	96.1	90.0 110.0
	Barium	1.0000	0.9851	98.5	90.0 110.0
	Beryllium	0.1000	0.1026	102.5	90.0 110.0
	Cadmium	1.0000	0.9729	97.3	90.0 110.0
	Chromium	1.0000	0.9945	99.4	90.0 110.0
	Copper	1.0000	0.9613	96.1	90.0 110.0
	Nickel	2.0000	1.9658	98.3	90.0 110.0
	Lead	5.0000	4.8077	96.2	<b>90.0</b> 110.0
	Antimony	1.0000	1.0055	100.6	90.0 110.0
	Selenium	0.4000	0.3840	96.0	90.0 110.0
	Thallium	1.0000	0.9549	95.5	90.0 110.0
	Vanadium	0.4000	0.4148	103.7	90.0 110.0
	Zinc	1.0000	0.9968	99.7	90.0 110.0
CCV12	Silver	0.1000	0.0918	91.8	90.0 110.0
	Arsenic	0.4000	0.3748	93.7	90.0 110.0
	Barium	1.0000	0.9810	98.1	90.0 110.0
	Beryllium	0.1000	0.1035	103.5	90.0 110.0
	Cadmium	1.0000	0.9623	96.2	90.0 110.0
	Chromium	1.0000	0.9821	98.2	90.0 110.0
	Copper	1.0000	0.9646	96.5	90.0 110.0

#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

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Analysis Batch Number: HREXT-07/01/98-061 -3 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 12 Batch Data-Date/Time : 07/02/98 / 16:35:58

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Sequence : DATR181

			· ·	QC	LIMITS
CCV #	ANALYTE	TRUE VALUE	BATCH READ	<u>% REC #</u>	LOWER UPPER
CCV12	Nickel	2.0000	1.9858	99.3	90.0 110.0
	Lead	5.0000	4.8107	96.2	90.0 110.0
	Antimony	1.0000	1.0253	102.5	90.0 110.0
	Selenium	0.4000	0.4040	101.0	90.0 110.0
	Thallium	1.0000	0.9462	94.6	90.0 110.0
	Vanadium	0.4000	0.4173	104.3	90.0 110.0
	Zinc	1.0000	0,9904	99.0	90.0 110.0
CCV23	Silver	0.1000	0.0923	92.3	90.0 110.0
	Arsenic	0.4000	0.3696	92.4	90.0 110.0
	Barium	1.0000	0.9822	98.2	90.0 110.0
	Beryllium	0.1000	0.1036	103.6	90.0 110.0
	Cadmium	1.0000	0.9664	96.6	90.0 110.0
	Chromium	1.0000	0.9886	98.9	90.0 110.0
	Copper	1.0000	0.9652	96.5	90.0 110.0
	Nickel	2.0000	1.9822	99.1	90.0 110.0
	Lead	5.0000	4.8118	96.2	90.0 110.0
	Antimony	1.0000	1.0118	101.2	90.0 110.0
	Selenium	0.4000	0.3948	98.7	90.0 110.0
	Thallium	1.0000	0.9441	94.4	90.0 110.0
	Vanadium	0.4000	0.4180	104.5	90.0 110.0
	Zinc	1.0000	0.9987	99.9	90.0 110.0
CCV34	Silver	0.1000	0.0919	91.9	90.0 110.0
	Arsenic	0.4000	0.3697	92.4	90.0 110.0
	Barium	1.0000	0.9773	97.7	90.0 110.0
	Beryllium	0.1000	0.1044	104.4	90.0 110.0
	Cadmium	1.0000	0.9569	95.7	90.0 110.0
	Chromium	1.0000	0.9817	98.2	90.0 110.0
	Copper	1.0000	0.9690	96.9	90.0 110.0
	Nickel	2.0000	1.9729	98.6	90.0 110.0
	Lead	5.0000	4.7755	95.5	90.0 110.0
	Antimony	1.0000	1.0151	101.5	90.0 110.0
	Selenium	0.4000	0.3928	98.2	90.0 110.0
	Thallium	1.0000	0.9421	94.2	90.0 110.0
	Vanadium	0.4000	0.4166		90.0 110.0
	Zinc	1.0000	0.9904	99.0	90.0 110.0
CCV45	Silver	0.1000	0.0937	93.7	90.0 110.0
	Arsenic	0.4000	0.3735	93.4	90.0 110.0
•	Barium	1.0000	0.9879	98.8	90.0 110.0
	Beryllium	0.1000	0.1031	103.1	90.0 110.0
	Cadmium	1.0000	0.9712	97.1	90.0 110.0
	Chromium	1.0000	0.9957	99.6	90.0 110.0
	Copper	1.0000	0.9692	96.9	90.0 110.0
	Nickel	2.0000	1.9646	98.2	90.0 110.0
	Lead	5.0000	4.7958	95.9	90.0 110.0
	Antimony	1.0000	1.0216	102.2	90.0 110.0
	Selenium	0.4000	0.3924	98.1 05.2	90.0 110.0
	Thallium	1.0000	0.9524	95.2	90.0 110.0 90.0 110.0
	Vanadium	0.4000	0.4164	104.1	90.0 110.0
	Zinc	1.0000	0.9986	99.9	70.0 110.0

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#### Mountain States Analytical, Inc. Daily QC Batching Data Data Released for Reporting

07/09/98 17:54:31 Group: 22927

Analysis Batch Number: HREXT-07/01/98-061 -3 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 12 Batch Data-Date/Time : 07/02/98 / 16:35:58

Sequence : DATR181

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
ICB-	Silver	ND	0.0030
	Arsenic	ND	0.0150
	Barium	0.0005	0.0020
	Beryllium	0.0000	0.0003
	Cadmium	0.0001	0.0010
	Chromium	0.0004	0.0050
	Copper	ND	0.0050
	Nickel	0.0004	0.0150
	Lead	ND	0.0150
	Antimony	0.0066	0.0200
	Selenium	0.0105	0.0150
	Thallium	0.0011	0.0080
	Vanadium	0.0003	0.0040
	Zinc	0.0001	0.0150
CCB1-	Silver	0.0002	0.0030
	Arsenic	ND	0.0150
	Barium	0.0002	0.0020
	Beryllium	0.0000	0.0003
	Cadmium	0.0002	0.0010
	Chromium	0.0007	0.0050
	Copper	ND	0.0050
	Nickel	0.0007	0.0150
	Lead	ND	0.0150
	Antimony	ND	0.0200
	Selenium	0.0125	0.0150
	Thallium	ND	0.0080
	Vanadium	ND	0.0040
	Zinc	ND	0.0150
CCB2-	Silver	0.0004	0.0030
	Arsenic	ND	0.0150
	Barium	0.0002	0.0020
	Beryllium	0.0000	0.0003
	Cadmium	0.0003	0.0010
	Chromium	0.0004	0,0050
	Copper	ND	0.0050
	Nickel	0.0000	0.0150
	Lead	0.0019	0.0150
	Antimony	ND	0.0200
	Selenium	0.0157	0.0160
	Thallium	ND	0.0080
	Vanadium	ND	0.0040
	Zinc	ND	0.0150
CCB3-	Silver	ND	0.0030
	Arsenic	ND	0.0150
	Barium	ND	0.0020
	Beryllium	0.000	0.0003
	Cadmium	0.0001	0.0010
	Chromium	0.0002	0.0050
	Copper	ND	0.0050
	Nickel	0.0002	0.0150

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#### Mountain States Analytical Inc. Daily QC Batching Data Data Released for Reporting

07/09/98 17:54:32 Group: 22927

Analysis Batch Number: HREXT-07/01/98-061 -3 Test Identification : HREXT-Metals for hr TCLP, by ICP Number of Samples : 12 Batch Data-Date/Time : 07/02/98 / 16:35:58

Sequence : DATR181

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
CCB3-	Lead	0.0025	0.0150
	Antimony	0.0018	0.0200
	Selenium	0.0094	0.0150
	Thallium	ND	0.0080
	Vanadium	ND	0.0040
	Zinc	ND	0.0150
CCB4-	Silver .	ND	0.0030
	Arsenic	ND	0.0150
	Barium	ND	0.0020
	Beryllium	0.0000	0.0003
	Cadmium	0.0001	0.0010
	Chromium	0.0004	0.0050
	Copper	ND	020050
	Nickel	0.0004	0.0150
	Lead	0.0033	0.0150
	Antimony	ND	0.0200
	Selenium	0.0157	0.0160
	Thallium	0.0023	0.0080
	Vanadium	0.0001	0.0040
	Zinc	ND	0.0150

----- Result Footnotes -----

(2c) - Spike result outside limits. PDS is within acceptance limits.

(2a) - Recovery is insignificant because sample conc. is >4x spike added.

(5a) - Duplicates not evaluated: Results are <10x detection limit

(B) - Nonhomogeneous sample

(11) - The duplicate results cannot be evaluated because both results are <MDL.

Groups & Samples

22923-82005	22923-82006	22923-82007	22923-82008	22927-82029	22934-82053	22937-82061	22940-82066
22940-82067	22952-82153	22963-82202	22966-82212				

### On Site Technologies, LTD.

612 E. Murray Drive Farmington, NM 87401 (505) 325-2432

#### Subcontractor:

01-2-

Mountain States A 1645 West 2200 S		TEL: FAX:								
Salt Lake City, UT	84119	Acct	#:							22-Jun-98
							quested Tests		<u></u>	
Sample ID	Matrix	Collection Date	Bottle Type	SW1010	SW1311	5W1311/6010A5	W1311/8240A5W	1311/82704	SW3010A	SW3510
9806089-01A	Soil	6/22/98 1:52:00 PM		1	3	1	1	1	1 ·	1
	:									
			:	·		•				
		`								
Comments:	<u>Please analyz</u>	e one (1) soil for TCL	<u>P Vols, TCLP Solo</u>	emi-Vols, TC	<u>CLP Metals, F</u>	Reactivity (CN/S	S), Corrosivity	and Ignitabi	<u>ity.</u>	
· - · · ·			Date	e/Time	•••			···· A	Da	te/Time
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Relinquished by:	0-4		01-11	-	Received by		Jr one	the second		
Reinquistieu by:						, -	1			

**CHAIN-OF-CUSTODY RECORD** 

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TECHNOLOGIES, LTD. 657 W. Maple • P. O. I LAB: (505) 325-5	Box <b>2606 •</b> 5667 • FA	• Farmingt AX: (505) 3	on NM 87	Date: _ /499	ψŗ	20	<u>FI 8</u>					N. 1	Paç	je	of
Purchase Order No.: Job No. 1/- Name Divit Peter Company Hailover (vit)pressor Address 13	-1.19 ·(ap)	Dept.	······	· · · · · · · · · · · · · · · · · · ·	REPORT RESULTS TO	L		· · · ·	$p_{i}$	01e °C	('Ui	npa	Title ?556		aver p
City, State, Zip Sampling Location: HIMOVER (DIRIPRESSOR COIP. 1300 W. IMUNICII FAMINGTONINI 87401 Sampler: DIUN Pote / 1(411) TRUNIIID							hone No	Ŧ/.			YSIS	REQU	Telefax ESTE		
SAMPLE IDENTIFICATION	SAN DATE	MPLE TIME 13:52	MATRIX Soil	PRES.	Number of Containers	/									LABID TELELEG-CI
#2	6122	13.5	Soil	Alune											<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
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Relinquished by: Relinquished by: Method of Shipment:	D	Date/Time			Rece	ived by ived by	. (.) :	) 24-48 H	lours	10	) Workir	ng Days	Spe	Date/T Date/T	ime
Authorized by:(Client Signature Must Accompany Request)		Date						:	•	•	• • •			,	

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arrict I - (505) 393-6161       New Mexico         D. Box 1980       Energyerals and Natural Resource         bbs. NM 88241-1980       Energyerals and Natural Resource         urict II - (505) 748-1283       Oil Conservation Division         S. First       2040 South Pacheco Street         esia, NM 88210       2040 South Pacheco Street         vrict III - (505) 334-6178       Santa Fe, New Mexico 87505         O Rio Brazos Road       (505) 827-7131	A
.c, NM 87410 (505) 827-7131 <u>utrict IV</u> - (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98072
1. RCRA Exempt: 🔀 Non-Exempt: 🛄	4. Generator RED CEDAR
Verbal Approval Received: Yes 🔀 No 🛄	5. Originating Site ARK LOOP
2. Management Facility Destination TIERRA LAWAFARM	6. Transporter
3. Address of Facility Operator 420 CR 3100 Azec	8. State NM
7. Location of Material (Street Address or ULSTR) S- 2 T-32N P9	
<ul> <li>All requests for approval to accept oilfield exempt wastes will be acco Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acco</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	
BRIEF DESCRIPTION OF MATERIAL: CONTAMINATED S COAL FINES And OIL Stream	FROM NATURAL GAS
DEC JIL Estimated Volume (to be entered by the 306	EIVED 171998 Hauled 7/16/9 DNo DITV ratoriat the end of the haul)
SIGNATURE: Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: BLAINE WILLIAMS TELL	PECIALIST DATE: 7-16-98 EPHONE NO. 334-8894

#### **CERTIFICATE FROM OUT OF STATE AGENCY**

## AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE FROM THEIR JURISDICTION TO NEW MEXICO

OIL CON. DIV. DIST. 3

I have reviewed the enclosed information concerning the oilfield waste material from location <u>Arkansas Loop Plant-LaPlata Cty</u>, <u>Colo</u> and agree that by its description it is non-hazardous and therefore exempt from regulation by the Resource Conservation and Recovery Act (RCRA) and my jurisdictions rules, regulation or statute.

x The material is exempt from regulation because it is classified as nonhazardous oilfield waste by definition.

The material is exempt from regulation by characteristic analyses.

The material is exempt from regulation by product identification.

#### THEREFORE:

As a representative for <u>Bureau of Indian Affairs</u> I have no objections to the material being removed to New Mexico.

NAME: Breuninger	TITLE: Marintende	ent
SIGNATURE: All fillune	_DATE: _ <u>6//7/5/</u>	- 16M
AGENCY: Bureau of Indian Affairs		101
ADDRESS: PO Box 315, Ignacio, CO 811	37	
PHONE: (970) 563-4514	· ·	_

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### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Red Cedar Gathering Company	
26266 Hwy. 160	
Durango, Co 81301	Location of the Waste (Street address &/or ULSTR):
3. Originating Site (name):	Focation of the Avera (other sodiers end of other int:
Arkansas Loop Natural GaS Trea Section 2 of32N 9W	ting Facility, LaPlata County
Attach list of originating eltes as appropriate	
4. Source and Description of Waste	
Contaminated soil due to upset oil from natural gas stream (so	and spill of water coal fines and oil is discolored with NO free oil)
1	representative for:
I James H. Mayo	
	A de breches coults that
	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July,
Red Cedar Gathering Company 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)
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT cilfield waste	NPT oilfield waste which is non-hazardous by characteristic
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT cilfield waste	iny Act (RCRA) and Environmental Protection Agency's July, Weste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification
Red Cedar Gathering Company according to the Resource Conservation and Recove 1988, regulatory determination, the above described XX EXEMPT oilfield waste	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate elemification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT ciffield waste	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT cilfield waste	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company         according to the Resource Conservation and Recover         1988, regulatory determination, the above described         XX EXEMPT oilfield waste       NON-EXEMPT         analysis g         and that nothing has been added to the exempt or not         For NON-EXEMPT waste only the following documents         MSDS Information	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT cilfield waste	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT oilfield waste	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT cilfield waste	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT oilfield waste	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company according to the Resource Conservation and Recover 1988, regulatory determination, the above described XX EXEMPT oilfield waste	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company         according to the Resource Conservation and Recover         1988, regulatory determination, the above described         XX EXEMPT cilfield waste       NON-EXEMPT         and that nothing has been added to the exempt or not         For NON-EXEMPT waste only the following docum         MSDS Information         RCRA Hazardous Waste Analysis         Chain of Custody         Name (Original Signature):         Manager_Safety & Environment	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
Red Cedar Gathering Company         according to the Resource Conservation and Recover         1988, regulatory determination, the above described         XX EXEMPT cilfield waste       NON-EXEMPT         and that nothing has been added to the exempt or not         For NON-EXEMPT waste only the following docum         MSDS Information         RCRA Hazardous Waste Analysis         Chain of Custody         Name (Original Signature):         Manager_Safety & Environment	Act (RCRA) and Environmental Protection Agency's July, Waste is: (Check appropriate classification) MPT olifield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.

District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy       erals and Natural Resource         Hobbs, NM 88241-1980       Energy       erals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         S11 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         Strict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	<b>4</b>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98068
1. RCRA Exempt: X Non-Exempt: D Foust	4. Generator Aurlington Resources
Verbal Approval Received: ۲۰۶-۶%Yes 🗹 No 🗔	5. Originating Site Val Verde Plant
2. Management Facility Destination Tierro Environmental Land facm	6. Transporter Freemeyer
3. Address of Facility Operator 420 C. R. 3100 Aztec Sen Juan County	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Val Verde Plant	
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be according to accept oilfield exempt wastes will be according to accept non-exempt wastes must be according to accept non-exempt wastes must be according to accept 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: Charcoal Filter For Filtering Amine	for an and an end of the second second and an end of the second
	DECEIVED
	OIL CONL DIV. DISTL 3
Estimated Volume $-24$ cy Known Volume (to be entered by the ope	rator at the end of the haul) cy
Waste Management FacilityAuthorized Agent	tal Specialist DATE: 7-7-98 EPHONE NO. 334-8894
(This space for State Use) APPROVED BY: Demy Be Found TITLE: Geolog APPROVED BY: mie Studen TITLE: Grad	CIST DATE: 7/8/98 DATE: 7/9/97

### **CERTIFICATE OF WASTE STATUS**

. Generator Name and Address:	2. Destination Name:
Burlington Resources 3535 East 30 th Street	Tierra
armingto NM 87401	
. Originating Site (name):	Location of the Waste (Street address /or ULSTR):
Val Verde Plant	Val Verde Plant
S	
Source and Description of Waste:	
CHARCOAL FILTER FOR FILTERING AMIN	
Bert Gardenhire	representative for:
Burlington Resources	do hereby certify that,
according to the Resource Conservation and	Recovery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above d	lescribed waste is: (Check the appropriate classi
	NON-EXEMPT oilfield waste which is non-hazardous by characteristic
а	nalysis or by product identification.
and that nothing has been added to the exemp	t or non-exempt non-hazardous waste defined above.
and a state of the second	
For NON-EXEMPT waste only the following	documentation is attached (chech appropriate items):
MSDS Information	Other (description):
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
MSDS Information	Other (description):
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Other (description):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Other (description):

# Waste Manifest

Manife	nber:	131
Date		7/7/98

#### Burlington Resources, San Juan Division

3535 East 30 th Street

P.O. Box 4289

#### Farmington, NM 87499-4289

Val Verde Plant		
Unit: SW Section: 14 Township 29N Range: 11W		
8 Cubic Yards 0 Barrels	<b>0</b> Gallons Costs: \$14.00	
Charcoal Filter		
Profile Number: Charcoal Filter		
CHARCOAL FILTER FOR FILTERING AMINE		
l'ierra		
hereby certify, represent and warrant that the wastes are enerated from oil and gas exploration and production perations exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations.	Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1	nd 988,
· · · · · · · · · · · · · · · · · · ·	Non-Exempt oilfield waste which is non-ha	zardous by
ignature: Bert Handenter Date: 7-7-9	Signature:	Date:
itle: Maint Open	Title:	
	a second seco	enter et al la la constant de la cons
<u>BR Representative Com</u>	plete:	
FREEMEYER		_
Dates Transported: 7-7-98		7
Signature: Date: 7-7-	-98	_
Burlington Safety and <u>Disposal Facility Compl</u> tent with Invoice:	ete:	
Dates Received:		-
Volume Received:		
Waste Location: Cell/Grid No.		
Received By:		
	n Jeff Schoenbacher (505) 326-9537	<u> </u>
3535 East 30 th Street		
	Junit: SW Section: 14 Township 29N Range: 11W         8 Cubic Yards       0 Barrels         Charcoal Filter         Profile Number: Charcoal Filter         CHARCOAL FILTER FOR FILTERING AMINE         Cierra         hereby certify, represent and warrant that the wastes are enerated from oil and gas exploration and production perations exempt from Resource Conservation and tecovery Act (RCRA) Subtitle C Regulations.         ignature: Barf Haufenture Date: 7-7-9         itle: Maunt Open         BR Representative Com         FREEMEYER         Dates Transported: 7-7-98         Signature: Burfuncture Date: 7-7-98         Signature: Dates Transported: 7-7-98         Signature: Dates Transported: 7-7-98         Suptimized Date: 7-7-98         Signature: Dates Transported: 7-7-98         Signature: Dates Transported: 7-7-98         Signature: Dates Transported: 7-7-98         Signature: Dates Transported: 7-7-98         Signature: Dates Received:         Volume Received:         Waste Location: Cell/Grid No.         Received By:	Barrels       O       Gallons       Costs:       \$14.00         Barrels       O       Gallons       Costs:       \$14.00         Charcoal Filter       O       Gallons       Costs:       \$14.00         Profile Number:       Charcoal Filter       Charcoal Filter       Charcoal Filter         CHARCOAL FILTER FOR FILTERING AMINE       I hereby certify, that according to the Reson         Tierra       I hereby certify, that according to the Reson         enerated from oil and gas exploration and production perations exempt from Resource Conservation and Environmental Protection Agency's July, I' regulatory determination the above describing the same which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by product identified waste which is non-haz characteristic analysis or by

A Section 2005) 393-6161 A Section 2005) 393-6161 A Section 2005 A Section	Submit Origina:
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE 98067
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator SUNICO Trucking
Verbal Approval Received: Yes 🛄 No 🛄	5. Originating Site P. Deyard
2. Management Facility Destination Tierra Environmental Lond farm	6. Transporter SUAICO Trucking
3. Address of Facility Operator 420 C.R. 3100 Astec San Juan Co. NM	
7. Location of Material (Street Address or ULSTR) 3801 Southside R. R	- Farmington, S. J. County, NM 87401
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oitfield exempt wastes will be acc Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acc PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</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
BRIEF DESCRIPTION OF MATERIAL: Sludge from tank Cleaning Sump. there have b	Deen no changes to
waste Stream Since 4-27-98, This is a con	tinuance of job
started May '98.	ECEIVED JUL 8 1954 CONL DIVZ
Estimated Volume	perator at the end of the haul)
SIGNATURE:	ental Specialist DATE: 7-6-98
	LEPHONE NO. 334-8894
(This space for State Use)	
APPROVED BY: Denny S. Fant TITLE: G. CO /c	0515T DATE: 7/8/98
APPROVED BY: Rose Conden TITI F. Sour	Chil DATE. 2/10/98

District I - (505) 393-6161       New Mexic         P. O. Box 1980       Energy       trals and Natural R         Hobbs, NM 88241-1980       Energy       trals and Natural R         District II - (505) 748-1283       Oil Conservation I         District II - (505) 334-6178       2040 South Pacheco         Price III - (505) 334-6178       Santa Fe, New Mexic         Nio Brazos Road       (505) 827-713         District IV - (505) 827-7131       District IV - (505) 827-7131	esources artment Originated 8/8/95 Division Street Submit Original Plus 1 Copy to appropriate
REQUEST FOR APPROVAL TO AC	CEPT SOLID WASTE 98067
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator SUNCO Trucking
Verbal Approval Received: Yes 🗋 No 🛄	5. Originating Site Pipeyard
2. Management Facility Destination Tierra ENvironmental Land	farm 6. Transporter SUNCO Trucking
3. Address of Facility Operator 120 C.R. 3100 Aztec, San Juan	Co. NM 8. State New Mexico
7. Location of Material (Street Address or ULSTR) 3801 Southsid	le R. Rd. Farminaton, S. J. County, NM 87401
9. <u>Circle One</u> :	<u>_</u>
B. All requests for approval to accept non-exempt wastes must PROVE the material is not-hazardous and the Generator's constrained in the second secon	ertification of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Sludge from tank cleaning Sump, there h waste Stream Since 4-27-98, This is a	$\mathbf{\nabla}$
started May '98.	
	DECEIVED
	OIL CON. DIV.
Estimated Volume	
waste management HacilityAuthonized Agent	Vironmental Specialist DATE: 7-6-98
TYPE OR PRINT NAME: Jim Nobis	
(This space for State Use)	
APPROVED BY: Deny ge Tom TITLE: Ge	=0 (0515T DATE: 7/8/9K
APPROVED BY: TITLE:	DATE:

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
SUNCO TRUCKING	
	SUNCO DISPOSAL
5651 U.S. 64	
3. Originating Site (name):	Leasting of the Works (Street address & (as ULCTP))
SUNCOTRUCKING PIPEYARD	Location of the Waste (Street address &/or ULSTR):
CONCORNE PIPEYARD	3801 Southside River ROAD
	FARMINGTON
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Sludge FROM TANK CLEANING	SUMP, there have been NO
Chawles to waste STREAM SIN	ce 4-27-98. This is A
Continuence of orginal job 5	tacked MAY 98
1, <u>Had</u> STONE Key FOUR CORNERS, INC. DBA S	representative for:
V- Fair (Print Name)	Territo A
MEY FOOK CORNERS, INC. UBA OI	unco ////////////////////////////////////
1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
<u> </u>	<b>IPT</b> 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 docum MSDS Information X RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature): <u>Al Stone</u> Title: <u>CENERAL MANAGER - TRUCKING</u>	
Title: CENERAL MANAGER - TRUCKING	DIVISION
Date: 1-6-98	



2506 W. Main Street Fermington, New Mexico 87401

April 3, 1998

Michael Talovich Sunco Trucking 708 S. Tucker Farmington, NM 87401

Mr. Talovich:

Enclosed, please find the reports for the samples received by our laboratory for analysis on March 20, 1998.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

We appreciate your business!

Sincer Shardn Williams

Organics Lab Supervisor

Enclosures xc: File

2506 W. Main Street Farmington, New Mexico 87401

#### **CASE NARRATIVE**

Date: April 3, 1998

Client: Sunco Trucking

Project: Pipe Yard Sample No. 0398G01388-1389 # Samples: 2

Dear Client:

The sample or samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Due to the nature of the sample matrix for the sludge sample, we were unable to obtain the recommended acceptable Cation/Anion Balance of 5%.

Analytical results were obtained by approved methods. Practical quantitation limits (PQL) were determined for each parameter for various matrices, and standard preparation dilutions. Quantitative results are reported on an "as received" basis for non-aqueous matrices.

If you have any question, please call me at our toll free number 1 (800) 828-1409.

/John Green Water Lab Supervisor IML-Farmington, NM

2506 W. Main Street Fermington, New Mexico 87401

### SUNCO TRUCKING

#### Case Narrative

On March 20, 1998, samples were submitted to Inter-Mountain Laboratories -Farmington for analysis. The samples were identified by project "Pipe Yard", and were analyzed for the parameters indicated on the accompanying Chain of Custody document #51988.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analyses of the samples reported herein are found in <u>Test Methods For</u> <u>Evaluation of Solid Waste</u>, SW-846, USEPA, 1986, and <u>Methods For Chemical Analysis of Water and Wastes</u>, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

lians Williams nardn

Organics Lab Supervisor

#### Inter Mountain Laboratories, I

Sunco Trucking
Pipe Yard
Pipe Yard
0398G01388
Water
Intact

2	506	W.	Main	Street
Farmington,	New	M	oxico	87401

Date Received: 03/20/98 Date Reported: 04/03/98 Date Sampled: 03/20/98 Time Sampled: 1500

	Analytical						Ana	lysis	
Parameter	Resuit	Units		Units	PQL	Method	Date	Time	init.
General Parameters									
рн	7.2	\$.U.			0.1	EPA 150.1	03/20/98	1600	BJ
Electrical Conductivity	720	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP
Solids - Total Dissolved	430	mg/L			10	EPA 160.1	03/26/98	1340	BJ
Solids - Total Dissolved (Calc)	410	mg/L			10	Calculation	04/03/98	1425	JG
Solids-Total	540	mg/L			10	EPA 160.3	03/27/98	0910	BJ
Alkalinity (CaCO3)	101	mg/L			1	EPA 310.1	03/24/98	0930	AP
Hardness (CaCO3)	213	mg/L			1	Calculation	04/03/98	1425	JG
Major Anions									
Bicarbonate (HCO3)	123	mg/L	2.02	meq/L	1	EPA 310.1	03/24/98	0930	AP
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Chloride	83	mg/L	2.33	meq/L	1	EPA 300.0	03/26/98	0800	AP
Nitrogen - Nitrate/Nitrite	0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH
Sulfate	116	mg/L	2.42	meq/L	5	EPA 300.0	03/26/98	0800	AP
Major Cations									
Calcium	68.5	mg/L	3.42	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Magnesium	10.1	mg/L	0.83	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Potassium	21.9	mg/L	0.56	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Sodium	53.5	mg/L	2.33	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Cation / Anion Balance QC Informatio	n.								
Anion Sum			6.77	meq/L	0.01	Calculation			
Cation Sum			7.14	meq/L	0.01	Calculation			
Cation/Anion Balance			2.66	%	N/A	Calculation			

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.

EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

**Reviewed By:** 

John Green, Water Lab Supervisor

#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

Client: SUNCO TRUCKING			
Sample ID: Pipe Yard		Date Reported:	04/02/98
Project ID: Pipe Yard		Date Sampled:	03/20/98
Lab ID: 8981209		Date Received:	03/24/98
Matrix: Water		Date Extracted:	NA
	······································	Date Analyzed:	03/31/98
Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1-Chlorohexane	ND	5.0	ug/L
2-Chloroethylvinyl ether	ND	5.0	ug/L
Benzyl chloride	ND	5.0	ug/L
bis(2-Chloroethoxy)methane	ND	5.0	ug/L
bis(2-Chloroisopropyl)ether	. ND	5.0	ug/L
Bromobenzene	ND	5.0	ug/L
Bromodichloromethane	5.3	5.0	ug/L
Bromoform	8.4	5.0	ug/L
Bromomethane	ND	5.0	ug/L
Carbon Tetrachloride	ND	5.0	ug/L
Chloroacetaldehyde	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Chloromethylmethyl ether	ND	5.0	ug/L
Chlorotoluene	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Dibromomethane	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Tetrachloroethene (PCE)	ND	5.0	ug/L

**Reference:** Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst 1

Reviewed 8

#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

Client:	SUNCO TRUCKING			
Sample ID:	Pipe Yard		Date Reported:	04/02/98
Project ID:	Pipe Yard		Date Sampled:	03/20/98
Lab ID:	B981209		Date Received:	03/24/98
Matrix:	Water		Date Extracted:	NA
			Date Analyzed:	03/31/98
trans-1,2-D	ichloroethene	. ND	5.0	ug/L
trans-1,3-D	ichloropropene	ND	5.0	ug/L
Trichloroeth	nene (TCE)	ND	5.0	ug/L
Trichloroflu	oromethane	ND	5.0	ug/L
Trichloropro	opane	ND	5.0	ug/L
Vinyl Chlor	ide	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

**Reference:** Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

Analyst

Reviewed

n

#### TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

Client:	Sunco Trucking		
Project:	Pipeyard	Date Reported:	03/30/98
Sample ID:	Pipeyard	Date Sampled:	03/20/98
Laboratory ID:	0398G01388	Date Received:	03/20/98
Sample Matrix:	Water	Date Analyzed:	03/28/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	0.24	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	<0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

**References:** Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

**Comments:** 

Reported By:

Reviewed:

#### **VOLATILE AROMATIC HYDROCARBONS**

Client: Project ID: Sample ID: Lab ID: Sample Matrix: Condition: Sunco Trucking Pipe Yard Pipe Yard 0398G01388 Water Cool/Intact

Report Date:03/31/98Date Sampled:03/20/98Date Received:03/20/98Date Extracted:NADate Analyzed:03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	55	1.0
Toluene	422	1.0
Chlorobenzene	ND	1.0
Ethylbenzene	163	1.0
m,p-Xylenes	665	1.0
o-Xylene	199	1.0
1,3-Dichlorobenzene	4.87	1.0
1,4-Dichlorobenzene	22	1.0
1,2-Dichlorobenzene	15.8	1.0

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	106.0%	70 -130%
Reference:		nd Trap; Method 602, Purge Analysis of Municipal and In	-

USEPA, October 1984.

Comments:

Client: Project:	Sunco Trucking Pipe Yard							·		
Sample ID:	Pipe Yard						Date I	Received	: 03/20	0/98
Lab ID:	0398G01389						Date I	Reported	: 04/0:	3/98
Matrix:	Sludge						Date	Sampled:	03/2(	0/98
Condition:	Intact							Sampled		
		Analytical							lysis	
Par	ameter	Result	Unite		Units	PQL	Method	Date	Time	<u>Init.</u>
General Parar	neters									
РН		7.6	S.U.			0.1	EPA 150.1	03/20/98	1600	BJ
Electrical Conduct	livity	3,030	µmhos/cm			10	EPA 120.1	03/20/98	1600	AP
Solids - Total Disa	loved	2,240	mg/L			10	EPA 160.1	03/26/98	1340	BJ
Solids - Total Disa	olved (Calc)	1,540	mg/L			10	Calculation	04/03/98	1425	JG
Solids-Total		4,480	mg/L		·	10	EPA 160.3	03/27/98	0910	BJ
Alkalinity (CaCO3)	)	449	mg/L			1	EPA 310.1	03/24/98	0930	AP
Hardness (CaCO3	3)	399	mg/L			1	Calculation	04/03/98	1425	JG
Major Anions										
Bicarbonate (HCC	)3)	547	mg/L	8.97	meq/L	1	EPA 310.1	03/24/98	0930	AP
Carbonate (CO3)		<1	mg/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Hydroxide (OH)		<1	ma/L	<0.01	meq/L	1	EPA 310.1	03/24/98	0930	AP
Chloride		140	mg/L	3.95	meq/L	1	EPA 300.0	03/26/98	0800	AP
Nitrogen - Nitrate/I	Nitrite	0.14	mg/L			0.05	EPA 353.2	03/24/98	1430	SH
Sulfate		414	mg/L	8.63	meq/L	5	EPA 300.0	03/26/98	0800	AP
<b>Major</b> Cations	1									
Calcium		134	mg/L	6.69	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Magnesium		15.6	mg/L	1.28	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Potassium		260	mg/L	6.65	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Sodium		309	mg/L	13.4	meq/L	0.2	EPA 200.7	03/26/98	0630	ST
Cation / Anior	n Balance QC Informa	tion								
Anion Sum				21.5	meq/L	0.01	Calculation			
Cation Sum				28.1	meq/L	0.01	Calculation			
Cation/Anion Bala	nce			13.2	%	N/A	Calculation			
							54.94.44.44			

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Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", United States Environmental Protection Agency, EPA 600/4-79-020, Revised March, 1983.

EPA - "Methods for the Determination of Inorganic Substances in Environmental Samples", United States Environmental Protection Agency, EPA 600/R-93/100 August, 1983.

Reviewed By:

John Green, Water Lab Supervisor

#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

Client: SUNCO TRUCKING			
Sample ID: Pipe Yard		Date Reported:	04/02/98
Project ID: Pipe Yard		Date Sampled:	03/20/98
Lab ID: B981210		Date Received:	03/24/98
Matrix: Sludge		Date Extracted:	04/01/98
		Date Analyzed:	04/01/98
Parameter	Result	PQL	Units
1,1,1,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,1-Trichloroethane	ND	1.5	mg/kg
1,1,2,2-Tetrachloroethane	ND	1.5	mg/kg
1,1,2-Trichloroethane	ND	1.5	mg/kg
1,1-Dichloroethane	ND	1.5	mg/kg
1,1-Dichloroethene	ND	1.5	mg/kg
1,2-Dichlorobenzene	ND	1.5	mg/kg
1,2-Dichloroethane	ND	1.5	mg/kg
1,2-Dichloropropane	ND	1.5	mg/kg
1,3-Dichlorobenzene	ND	1.5	mg/kg
1,4-Dichlorobenzene	ND	1.5	mg/kg
1-Chlorohexane	ND	1.5	mg/kg
2-Chloroethylvinyl ether	ND	1.5	. mg/kg
Benzyl chloride	ND	1.5	mg/kg
bis(2-Chloroethoxy)methane	ND	1.5	mg/kg
bis(2-Chloroisopropyl)ether	ND ND	1.5	mg/kg
Bromobenzene	ND	1.5	mg/kg
Bromodichloromethane	ND	1.5	mg/kg
Bromoform	ND	1.5	mg/kg
Bromomethane	ND	1.5	mg/kg
Carbon Tetrachloride	ND	1.5	mg/kg
Chloroacetaldehyde	ND	1.5	mg/kg
Chlorobenzene	ND	1.5	mg/kg
Chloroethane	ND ,	1.5	mg/kg
Chloroform	ND	1.5	mg/kg
Chloromethane	ND	1.5	mg/kg
Chloromethylmethyl ether	ND	1.5	mg/kg
Chlorotoluene	ND	1.5	mg/kg
cis-1,3-Dichloropropene	ND	1.5	mg/kg
Dibromochloromethane	ND	1.5	mg/kg
Dibromomethane	ND	1.5	mg/kg
Dichlorodifluoromethane	ND	1.5	mg/kg
Methylene chloride	ND	1.5	mg/kg
Tetrachloroethene (PCE)	ND	1.5	mg/kg

**Reference:** Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

K/J Analyst

Reviewed 87

#### EPA METHOD 8010 PURGEABLE HALOCARBON COMPOUNDS

Client:	SUNCO TRUCKING			
Sample ID:	Pipe Yard		Date Reported:	04/02/98
Project ID:	Pipe Yard		Date Sampled:	03/20/98
Lab ID:	B981210		Date Received:	03/24/98
Matrix:	Sludge		Date Extracted:	04/01/98
			Date Analyzed:	04/01/98
trans-1,2-D	Dichloroethene	ND	1.5	mg/kg
trans-1,3-D	Dichloropropene	ND	1.5	mg/kg
Trichloroet	hene (TCE)	ND	1.5	mg/kg
Trichloroflu	oromethane	ND	1.5	mg/kg
Trichloropre	opane	ND	1.5	mg/kg
Vinyl Chlor	ide	ND	1.5	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

**Reference:** Method 8010, Halogenated Volatile Organics, Test Methods For Evaluating Solid Waste, SW-46, United States Environmental Protection Agency, September 1986.

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#### TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

Client:	Sunco Trucking		
Project:	Pipeyard	Date Reported:	03/30/98
Sample ID:	Pipeyard	Date Sampled:	03/20/98
Laboratory ID:	0398G01389	Date Received:	03/20/98
Sample Matrix:	Sludge	Date Analyzed:	03/28/98

Parameter		Detection Limit		
Arsenic	0.005	0.005	5	mg/L
Barium	6.94	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By:_

Reviewed:

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### **Quality Control / Quality Assurance**

**Known Analysis** 

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client: Project: Sample Matrix: Sunco Trucking Pipeyard Extract Date Reported:03/30/98Date Analyzed:03/28/98Date Received:03/20/98

Found		and a second second a second	
Result	Known Result	Percent Recovery	Units
0.011	0.010	110%	mg/L
0.95	1.00	95%	mg/L
1.040	1.000	104%	mg/L
1.05	1.00	105%	mg/L
0.95	1.00	95%	mg/L
0.004	0.004	100%	mg/L
0.010	0.010	100%	mg/L
2.05	2.00	103%	mg/L
	0.011 0.95 1.040 1.05 0.95 0.004 0.010	0.011         0.010           0.95         1.00           1.040         1.000           1.05         1.00           0.95         1.00           0.95         1.00           0.004         0.004           0.010         0.010	0.011         0.010         110%           0.95         1.00         95%           1.040         1.000         104%           1.05         1.00         105%           0.95         1.00         95%           0.010         100%         0.004

### Known Analysis

**References:** 

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

**Comments:** 

Reported by

Reviewed by

2508 W. Main Street Fermington, New Mexico 87401

### **Quality Control / Quality Assurance**

Known Analysis Purgeable Aromatics

Client: Project: Sunco Trucking Pipe Yard Date Reported: 03/31/98 Date Analyzed: 03/30/98

**Known Analysis** 

Parameter	Found Result	Known Result	Percent Recovery	Acceptance Limits
Faidinetei	(ppb)	(ppb)	Recovery	Liiiitə
Benzene	19.3	20.0	97%	70-130%
Toluene	19.6	20.0	98%	70-130%
Chlorobenzene	19.6	20.0	98%	70-130%
Ethylbenzene	19.7	20.0	99%	70-130%
m+p-Xylene	40.7	40.0	102%	70-130%
o-Xylene	20.1	20.0	100%	70-130%
1.3-Dichlorobenzene	20.2	20.0	101%	70-130%
1,4-Dichlorobenzene	20.7	20.0	104%	70-130%
1,2-Dichlorobenzene	20.3	20.0	102%	70-130%

Quality Control: Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	101.3%	70-130%

**Reference:** Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

_____ Analyst

Reviewed by_

### **Quality Control / Quality Assurance**

Spike Analysis / Blank Analysis TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client: Project: Sample Matrix: Sunco Trucking Pipeyard Extract

Date Reported:03/30/98Date Analyzed:03/28/98Date Received:03/20/98

	S	pike Analysis		
Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic Barium	0.029 2.63	0.00 1.55	0.025 1.00	104% 108%
Cadmium Chromium	1.020 1.08	<0.004 <0.01	1.000	102% 108%
Lead	0.92	<0.05	1.00	92%
Mercury Selenium	0.005 0.023	<0.001 <0.005	0.005 0.025	104% 92%
Silver	N/A	N/A	N/A	N/A

#### Method Blank Analysis

Parameter	Result	Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

#### **References:**

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

**Comments:** N/A=Data not available. Reported b

Reviewed by

2506 W. Main Street Fermington, New Mexico 87401

#### VOLATILE AROMATIC HYDROCARBONS QUALITY CONTROL REPORT

#### **Duplicate Analysis**

Lab ID:	0398G01384	Report Date:	03/31/98
Sample Matrix:	Water	Date Analyzed:	03/30/98
Condition:	Cool/Intact		

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	12.9	12.1	6.4
Toluene	16.1	15	7.1
Chlorobenzene	ND	ND	NA
Ethylbenzene	ND	ND	NA
m,p-Xylenes	2.44	2.7	10.1
o-Xylene	2.01	1.9	5.6
1,3-Dichlorobenzene	ND	ND	NA
1,4-Dichlorobenzene	ND	ND	NA
1,2-Dichlorobenzene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	90.8%	70 -130%

Reference: Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, USEPA, October 1984.

Comments:

Analyst

#### VOLATILE AROMATIC HYDROCARBONS QUALITY CONTROL REPORT

#### Method Blank Analysis

Sample Matrix:	Water	Report Date:	03/31/98
Lab ID:	Method Blank	Date Analyzed:	03/30/98

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	95.0%	70-130%
Reference:		d Trap; Method 602, Purge nalysis of Municipal and Ir	eable Aromatics; Methods idustrial Wastewater,

Comments:

Inter-Mountain Laboratories,

#### VOLATILE AROMATIC HYDROCARBONS QUALITY CONTROL REPORT

#### Matrix Spike Analysis

Lab ID:	0398G01384	Report Date:	03/31/98
Sample Matrix:	Water	Date Analyzed:	03/30/98
Condition:	Cool/Intact		

Target Analyte	Spiked Sample Result in ppb	Sample result in ppb	Spike Added (ppb)	% Recovery	Acceptance Limits (%)
Benzene	29.70	12.10	20.0	88.0%	70-130
Toluene	31.50	15.00	20.0	82.5%	70-130
Chlorobenzene	20.60	ND	20.0	103.0%	70-130
Ethylbenzene	21.20	ND	20.0	106.0%	70-130
m,p-Xylenes	42.90	2.70	40.0	100.5%	70-130
o-Xylene	20.20	1.90	20.0	91.5%	70-130
1,3-Dichlorobenzene	16.10	ND	20.0	80.5%	70-130
1,4-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130
1,2-Dichlorobenzene	16.00	ND	20.0	80.0%	70-130

ND - Analyte not detected at the stated detection limit. NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits	
	Bromofluorobenzene	102.3%	70 -130%	
<b>.</b> .	Method 5020, Durse and Trees Mathod 602, Durseable Aremetica: Mathoda			

Reference:Method 5030, Purge and Trap; Method 602, Purgeable Aromatics; Methods<br/>for Organic Chemical Analysis of Municipal and Industrial Wastewater,<br/>USEPA, October 1984.

Comments:

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#### LAB QA/QC EPA METHOD 8010 METHOD BLANK

Date Analyzed: 03/31/98 Lab ID: MBW000090 Matrix:

Parameter	Result	PQL	Units		
1,1,1,2-Tetrachloroethane	ND	5.0			
1,1,1-Trichloroethane	ND	5.0	ug/l		
1,1,2,2-Tetrachloroethane	ND	5.0	ug/l		
1,1,2-Trichloroethane	ND	5.0	ug/l		
1,1-Dichloroethane	ND	5.0	ug/l		
1,1-Dichloroethene	ND	5.0	ug/l		
1,2-Dichlorobenzene	ND	5.0	ug/l		
1,2-Dichloroethane	ND	5.0	ug/l		
1,2-Dichloropropane	ND	5.0	ug/l		
1,3-Dichlorobenzene	ND	5.0	ug/l		
1,4-Dichlorobenzene	ND	5.0	ug/l		
1-Chlorohexane	ND	5.0	ug/l		
2-Chloroethylvinyl ether	ND	5.0	· ug/		
Benzyl chloride	ND	5.0	ug/l		
bis(2-Chloroethoxy)methane	ND	5.0	ug/		
bis(2-Chloroisopropyl)ether	ND	5.0	ug/		
Bromobenzene	ND	5.0	ug/		
Bromodichloromethane	ND	5.0	ug/		
Bromoform	ND	5.0	ug/		
Bromomethane	ND	5.0	ug/l		
Carbon Tetrachloride	ND	5.0	ug/		
Chloroacetaldehyde	ND	5.0	ug/		
Chlorobenzene	ND	5.0	ug/		
Chloroethane	ND	5.0	ug/		
Chloroform	ND	5.0	ug/		
Chloromethane	ND	5.0	ug/		
Chloromethylmethyl ether	ND	5.0	ug/		
Chlorotoluene	ND	5.0	ug/		
cis-1,3-Dichloropropene	ND	5.0	ug/		
Dibromochloromethane	ND	5.0	ug/		
Dibromomethane	ND	5.0	ug/		
Dichlorodifluoromethane	ND	5.0	ug/		
Methylene chloride	ND	5.0	ug/		
Tetrachloroethene (PCE)	ND	5.0	ug/		
trans-1,2-Dichloroethene	ND	5.0	ug/		
trans-1,3-Dichloropropene	ND	5.0	ug/		
Trichloroethene (TCE)	ND	5.0	ug/		

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Inter Mountain Laboratories, Inc.

#### LAB QA/QC EPA METHOD 8010 METHOD BLANK

Date Analyzed: 03/31/98 Lab ID: MBW000090 Matrix:

Parameter	Result	PQL	Units
Trichlorofluoromethane	ND	5.0	ug/L
Trichloropropane	ND	5.0	ug/L
Vinyl Chloride	ND	5.0	ug/L

ND - Not Detected at Practical Quantitation Level (PQL)

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Laboratories, Inc.

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 $(M_{\rm eff}) = (M_{\rm eff})^2 + (M_{\rm eff})^2$ 

### CHAIN OF CUSTODY RECORD

Adapted to a grant

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SUNCO TRUCKING PI				-	oject Location PrPEYARD			•	ANALYSES / PARAMETERS							
Sampler: (Signature) Mike alow	il		Chai	n of Cust	ody Tape N	10.		Brs	<u> </u>	/		7	R	emarks		
Sample No./ Identification	Date	Time	Lab Nur	nber		Matrix		No. of Containers								
WHER Pipe Yard	3-20-98	1500				HLO		8								
Judge Pipelford						Slud	gel_	4								
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1633 Terra Avenue Sheridan, Wyoming 828 Telephone (307) 672-89	B01 Gille	I Phillips Ciro tte, Wyomino phone (307)	cle J 82718	<b>2</b> 506 W Farming	est Main St gton, NM 87 ne (505) 32	reet '401	<b>1</b> 160 Rese Bozeman, Telephone	earch Dri Montana	a 59718	Co		ation, T)	30 ( 77845 76-8945	<b>51</b> 34	<b>986</b>	