GW - 2001

# **REPORTS**

YEAR(S):

## ENVIROTECH INC.

PRACTICAL SOLUTION FOR A BETTER TOMORROW

# FIELD ACTIVITIES MITIGATION OF ENVIRONMENTAL HAZARDS

**Project Location:** 

INFAB 5928 U.S. Highway 64 Farmington, NM 87401

PROJECT #01007-001 June 19, 2001



June 19, 2001

Federated Environmental Associates

Attn: Jim Gossweiler

Bedford Square, 1314 Bedford Avenue

Baltimore, Maryland 21208

410-653-8434

Fax 410-653-3451

Re:

Report for INFAB on-site activities

Dear Jim:

Enclosed are three bound copies of a report detailing cleanup activities conducted at the referenced location. Note that issues affecting human health and the environment have been completed (ie. paint wastes, oily soil and water, and other potential contaminants). When tools, equipment, and salvage steel have been removed from the property there will a need for a general cleanup of the property to remove general debris including various paper products, weeds, pallets, lumber, and similar types of non-RCRA debris.

The NMOCD should forward a qualified letter of release from the existing Discharge Plan. We will assist in seeing this item of work to completion.

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

Sincerely,

**Envirotech Inc.** 

Harlan M. Brown

Geologist / Hydrogeologist

New Mexico Certified Scientist #083

Du Brown

## Field Activities Mitigation of Environmental Hazards

**Project Location:** 

INFAB 5928 US Hwy 64 Farmington, New Mexico 87401

Prepared for:

Barbara Tierney, Asset Recovery Specialist The CIT Group 650 CIT Drive Livingston, New Jersey 07039

Prepared by:

Envirotech Inc. 5796 US Hwy 64 Farmington, New Mexico 87401

Project Number 01007-001

## **TABLE OF CONTENTS**

Report	rext - Heme	dial Actions
Introduc	ction	
S	Scope of Wo	ork 1
C	On-Site Activ	vity 2
	A.	Hazardous Materials Handling
	B.	Handling Oily Soils 4
	C.	Water Screening, Profiling, & Disposal 5
	D.	Cleaning Sumps
S	Summary .	
S	Statement of	f Limitations
Site Ma <sub>l</sub>		
A	ppendix A -	- Correspondence
A	ppendix B -	- Laboratory Analysis
Α	ppendix C	- NMOCD Approvals for Soil and Water Disposals
A	ppendix D	- Disposal Manifests
		Hazardous Wastes
		Soil and Water
		Oil
		Refuse

## Yard Cleanup Report INFAB

#### Introduction

INFAB yard was the site of an industrial manufacturing facility located at 5928 US Highway 64, Farmington, New Mexico. The site has been used by several companies as an industrial manufacturing facility. On-site activities have been related to the fabrication of new oil and gas production equipment and reconditioning used oil and gas production equipment for resale or reuse by oil and gas production companies. Industrial activity at the site included welding, pipe fitting, metal bending and cutting, and painting associated with fabrication of new equipment including separators, dehydrators, re-boilers, and production tanks. Used production equipment was refurbished on this site as well. Wastes associated with cleaning and refurbishing used production equipment are considered "exempt" under Federal and New Mexico law.

## **Scope of Work**

Envirotech Inc. has been contracted by Federated Environmental Associates, Inc. to mitigate various sources of contamination that may be potential threats to human health and the environment. The scope of work requested by Federated included the following items:

- 1) Remove waste drums containing, soils, machine parts, scrap metal, rain water, etc. (Characterize and remove if hazardous)
- 2) Remove non-hazardous paint wastes on-site. Leave new sealed paint containers on-site. If reasonable remove and dispose of all paints on-site.
- 3) Remove fuel from aboveground fuel storage tanks on-site (gasoline and diesel).
- 4) Remove any and all open drums containing product (e.g. antifreeze, motor oils, and hydraulic fluids).
- 5) Remove any other wastes that Envirotech identified as being regulated or hazardous during our assessment of the site.
- 6) Conduct grab sampling at key locations on the site for metals analyses.

Envirotech was to involve the New Mexico Oil Conservation Division as necessary to obtain closure of a "Discharge Plan" issued through the New Mexico Oil Conservation Division.

## **On-Site Activity**

The scope of work for this project, outlined in a November 8, 2000 proposal submitted to Federated Environmental Associates, was divided into work activity based on the nature of the contaminants. In general work categories included the following:

- A) Hazardous materials inventory, profiling, over-packing for shipment, and disposal.
- B) Screening, sampling, profiling, and disposing of soils impacted by oils or paints.
- C) Screening, sampling, profiling, and disposing of water associated with production activity (hydrostatic test water and wash water at the refurbishing area).
- D) Cleaning and inspecting sumps in the shops and arranging for appropriate disposal. This item was added after the proposal was approved to meet closure guidelines established by the NMOCD.

## A) Hazardous Materials Handling

Drums, buckets, and aerosol cans were gathered to a common location for profiling and consolidation. Each container was opened to determine the type of paint or fluid contained therein. All paints on this location were flammable liquids (alkalyd epoxies and enamels containing xylene). The integrity of new paint products was suspect due to below zero weather conditions experienced in January 2001. Paints contained in five gallon and one gallon containers were bulked into fifty-five gallon open top DOT approved 1A2 steel drums for shipping. Aerosol cans were bulked into a single 55 gallon shipping drum for disposal. Xylene liquids were bulked together for disposal. Soil contaminated with dry paint solids from the open paint shop located at the east side of the property was drummed and sent to Waste Management of New Mexico's San Juan Regional Landfill.

In an effort to minimize disposal charges for disposal of hazardous materials at an EPA permitted Treatment, Storage, and Disposal Facility, bulked materials were packaged to simplify profiling into Flammable Liquids, Flammable Solids, and where necessary Flammable Liquids with a percentage of sludge or solids. Closed top drums were "deheaded" to allow removal of sludge from the bottoms. One and five gallon buckets containing an inch or more of paint solids/sludge were cut in half across the bottom to allow removal of the paint solids for disposal. Drum skulls and paint bucket skulls were loaded and transported to San Juan Recycling for recycling of the steel.

There was an open top ten (10) barrel tank at the northwest corner of the main shop building. This tank had been used as a settling / separator tank for xylene wastes. Sludge paint bottoms, water, and spent xylene were removed from this vessel and placed in drums for disposal. The tank was then wiped dry with rags. All cleaning materials were drummed for disposal as hazardous waste.

As materials were packaged for disposal the drums were numbered and inventoried based on the contents. Table 1 is a summary of drums by number, the contents of the drum, and how the drums were handled for disposal.

## <u>Table One</u> Drum List, Contents and Disposition

#1)	Flammable Liquid - Spent Xylene Envirosolve Southwest
#2)	Flammable Liquid - Spent Xylene w/ 2" Sludge Envirosolve Southwest
#3)	Flammable Liquid - Spent Xylene Envirosolve Southwest
#4)	Flammable Liquid - Spent Xylene Envirosolve Southwest
#5)	Flammable Liquid - Spent Xylene w/ 2" Sludge Envirosolve Southwest
#6)	25% Flam Liq - 75% flammable Solids (paint) Envirosolve Southwest
#7)	Soil with Paint Solids Waste Management NMSJRL
#8)	50% Flam Liq - 50% Flammable sludge Envirosolve Southwest
#9)	Soil with Paint Solids Waste Management NMSJRL
#10)	Soil with Paint Solids Waste Management NMSJRL
#11)	Flammable Liquid - 50% sludge (paint) Envirosolve Southwest
#12)	Flammable Liquid - 2" sludge Envirosolve Southwest
#13)	Soil with Paint Solids Waste Management NMSJRL
#14)	Flammable Liquid - 50% sludge (paint) Envirosolve Southwest
#15)	Flammable Liquid - 50% sludge (paint) Envirosolve Southwest
#16)	Soil with Paint Solids Waste Management NMSJRL
#17)	Paint Solids/Debris, floor sweep w/ xylene Envirosolve Southwest
#18)	Aerosol Cans Envirosolve Southwest
#19)	Paint Sludge with Water Envirosolve Southwest
#20)	Paint Sludge with Water Envirosolve Southwest
#21)	Paint Sludge with Water Envirosolve Southwest
#22)	Soil with Paint Solids Waste Management NMSJRL
#23)	Flammable Solids (paint drum bottoms) Envirosolve Southwest
#24)	Flammable Sludge (paint drum bottoms) Envirosolve Southwest
#25)	"Lab" Pack (misc. Small containers) Envirosolve Southwest
#26)	Flammable solids (Crust from xylene tank) Envirosolve Southwest
#27)	Flammable Liquid 25% - Water 75% (SA #26) Envirosolve Southwest
#28)	Flammable Liquid 25% - Water 75% (SA #26) Envirosolve Southwest
#29)	Drum of Hydraulic Oil Mesa Oil Recycling
#30)	Drum of oily Water Mesa Oil Recycling

Envirotech contacted the New Mexico Hazardous Waste Bureau to determine whether the facility had an EPA Generator Identification Number. The facility did not have a number. A temporary number was obtained to facilitate transport and disposal of the hazardous materials (paint related wastes). A copy of the Notification of Regulated Waste Activity is included in this report with copies of the Uniform Hazardous Waste Manifests documenting pickup of the waste. The Generator's Original Copy of the Uniform Hazardous Waste Manifests are to be returned to Federated Environmental Associates by Envirosolve Southwest.

Several drums of refuse were loaded and hauled to Waste Management of New Mexico's San Juan Regional landfill. While paper and corrugated box handling were not integral to environmental issues, the open top barrels containing the refuse were susceptible to receiving rainwater and floating residual oils out on to the ground. Empty steel drums were sent to San Juan Recycling for recycling.

## B) Handling Oily Soils

Oily soils were found in drums, around metal cutting equipment, and in the refurbishing area located in the "Hilltop Gang" area of the facility. As previously indicated all drums were inspected for oily debris. Drums containing metal parts, fittings, "Paul Rings", and other fabrication parts were inspected for suspect material. Oily materials were removed for appropriate disposal and remediation. Drums containing "parts only" were left on-site. Envirotech worked closely with the NMOCD to arrive at acceptable profiling measures for oily soil disposal.

Oily soil at the equipment refurbishing area was determined to be "exempt" oilfield waste because the wastes generated from the equipment are in contact with unprocessed natural gas in the gathering system of natural gas production areas. The wastes were screened for the presence of NORMs (Naturally Occurring Radioactive Materials). A profile was completed and approved by the NMOCD. Soil from the refurbishing area was loaded and transported to Envirotech's NMOCD permitted Soil Remediation Facility, Landfarm #2 for remediation of petroleum hydrocarbon contamination constituents.

Soil samples were collected from stained areas around metal cutting equipment (COC #8529 - Lab ID# 19315) and soil stained with hydraulic oil leaks from old Hyster forklifts (COC #8514 - Lab ID #19234). Soil samples were analyzed for Trace Metals associated with engine wear and hydraulic ram wear. Metals were not detected above Maximum Allowable Concentrations (40 CFR 261.24). Note that the analysis is by USEPA Method 6010B for "Total Metals". Reported results are divided by 20 for comparison to TCLP Maximum Allowable Concentrations. These wastes were found to be non-hazardous and characterized as Oilfield Non-Exempt wastes. Profiles were again completed for the NMOCD, soils excavated, transported, and placed in Landfarm #2 for remediation of petroleum hydrocarbon contaminants. Wind blown sediments had accumulated in oil recovery trays beneath the oil cooled band saws. This oily sediment and oil soaked soil surrounding the cutting equipment was excavated and transported to Envirotech's Soil Remediation Facility, Landfarm #2.

There were several large stains on the property where hydraulic oil had spilled on the ground as a result of leaking hoses on the forklifts. Recovery of hydraulic oil contaminated soil was apparently an ongoing problem because several barrels of soil exhibiting the same type of contamination were found stored on pallets at the northeast end of the property. This soil was excavated, loaded, and transported to Landfarm #2 for remediation.

## C) Water Screening, Profiling and Disposal

There were several locations with water in storage on-site. Two large tanks contained water for conducting hydrostatic testing on finished production equipment. There were sumps in the floor of each of the three main shop buildings. A 10,000 gallon above ground storage was in service between the Main Shop/Office and the west shop "Hilltop" area to hold wash water from the equipment refurbishing area.

Wash water from the equipment refurbishing area gravity feeds along a concrete trough to a pipe which dumps the water to a 10,000 gallon aboveground storage tank located east of the wash pad. This water was classified as Oilfield Exempt waste. The water was profiled for disposal at Key Energy's NMOCD permitted Water Injection Facility located at #345 County Road 3500, Farmington, New Mexico. Two loads of exempt wash water were hauled to Key Energy for underground injection.

There are two tanks on the site that were used to store hydrostatic test water. A representative water sample was collected from the tanks and analyzed for Total Metals. The water was found to be non-hazardous and profiled as Oilfield Non-exempt waste for injection at Key Energy's Injection Facility. Water samples were also analyzed from each of three sumps in buildings (Code Shop Sump COC #8529 Lab ID #19311; Main Shop Sump, COC 8529, Lab ID # 19312; and Hydro Shop Sump, COC 8530, Lab ID #19317) on the property and from four barrels of water labeled "Anti-Freeze" (COC #8529 Lab ID #19310). Note that the water sample from the Hydro Shop sump was analyzed by Toxicity Characteristic Leaching Procedure (TCLP) without Herbicides and Pesticides because there was evidence of frequent painting operations over the sump grate. Results of the analyses are included with each set of profiles for disposal. None of the samples had constituents that exceed Maximum Allowable Concentrations detailed in 40 CFR 261.24. Four eighty barrel loads of water were removed from the Hydrostatic Test Water Tanks, sumps, and barrels labeled as antifreeze and transported to Key Energy's Injection Facility.

The hydrostatic test water storage tanks were set up with plumbing that allowed the water to be recycled for future testing events. The system was set up to allow test water to be drained into the floor sumps where sump pumps picked the water up and cycled it back to the tanks. Without power to the facility the pumps were useless and impeded discharge from the tanks. In order to recover the water for disposal Envirotech had to modify the plumbing to drain the tanks. A union was removed from the two inch steel drain line on 210 barrel tank at the east side of the property and 2" steel pipe installed with a "quick couple" to facilitate offloading the tank. When water levels dropped below the line another plug was removed and a thief line constructed to finish draining water from the tank.

Inside the main shop there was a 300 barrel tank. A union was removed at the pump to gain access to a 1  $\frac{1}{2}$ " line connected to the bottom of the tank. Various odd sized nipples were used to construct a connection that could be attached to the vacuum truck. Concrete floor channels and the sump were vacuumed out in conjunction with the tank draining.

## D) Cleaning Sumps

Federated Environmental Associates agreed with Envirotech's recommendation that the NMOCD be involved with closure activities at the INFAB site so that duplicate sampling and analysis would not occur. The NMOCD has required that sumps on the property be drained and inspected for structural integrity. This phase of the work was conducted in conjunction with the water disposal. A power washer was used at each sump to wash down the sump walls and floors so that they could be inspected. The only sump that may be a problem is the one in the Main Shop. The cold joint between the flat work of the floor and the vertical walls of the sump is deeply weathered. The drain line serving this sump is actually below the cold joint but has been plugged to prevent flow to an on-site septic tank. As long as water accumulations in the sump were properly recycled to the adjacent 300 barrel hydrostatic test water tank there should have no discharge through the cold joint. There was no evidence of oil accumulation in any of the sumps. Trace Metals analysis on each sump did not have metals concentrations high enough to be of concern.

## **Summary**

Petroleum hydrocarbon contamination resulting from the operation of equipment and from cleaning oil and natural gas production equipment has been removed from the subject property. Oily solid waste has been profiled and disposed of in according to rules established by the NMOCD for an oilfield service company. Paint products, paint wastes, and chemical products used in the fabrication process found on the facility abandoned by the previous facility operator have been properly profiled and disposed of at EPA permitted Treatment, Storage, and Disposal Facilities. Waste waters associated with hydrostatic testing of new and refurbished production equipment has been analyzed for Trace Metals, profiled, and disposed of at an NMOCD permitted underground injection well.

Soil sampling has been conducted at areas where painting was conducted on open ground and where hydraulic and cutting oils were spilled. Metals contamination does not appear to be an issue for this site.

All work has been conducted in cooperation with the New Mexico Oil Conservation Division. The CIT Group should receive a letter from the NMOCD indicating that in its current condition the site could be released from a discharge plan prepared by the previous operator.

There remains on-site a sizeable inventory of useful production materials and equipment that should be of cash value. This material includes numerous electric rod and wire type welders, welding wire and rod, specialty rollers, supports, presses, gantries, and numerous hand tools for large diameter nuts and bolts. There are also three old forklifts on the property. Offices and shops alike appear ready to use in that desks, computers, chairs, office appurtenances are in place as are tools and equipment needed to fabricate

production equipment.

The scope of this project did not include removal general debris. When useful manufacturing equipment, steel products, and parts have been removed from the property there will be a need for cleanup of general refuse to improve the aesthetic appearance of the property.

With regard to environmental compliance issues, Envirotech Inc. recommends that No Further Action be taken at this site.

#### **Statement of Limitations**

The scope of Envirotech's services was limited to characterizing, profiling, packaging, and disposal of potential contaminants on the surface at the former INFAB Manufacturing plant. Characterization of waste streams involved knowledge of process and laboratory analysis where appropriate. Wastes generated as result of this project have been disposed, recycled, or remediated as necessary with documentation from each agency involved. All work has been performed in accordance with generally accepted professional practices in geology, hydrogeology, and environmental engineering practices.

This report is been prepared at the request of Federated Environmental Associates for the exclusive use of The CIT Group as it pertains to the subject site located east of Farmington, New Mexico.

I hereby certify that the work described in this report was performed under my direct supervision, that I am personally familiar with the nature of the work, the results of the analysis, and the contents of this report.

Respectfully submitted,

Envirotech Inc.

Harlan In Brown

Harlan M. Brown

CRATIFIED SCIENT

Geologist / Hydrogeologist

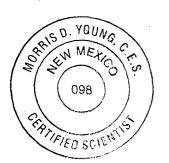
New Mexico Certified Scientist #083

Reviewed:

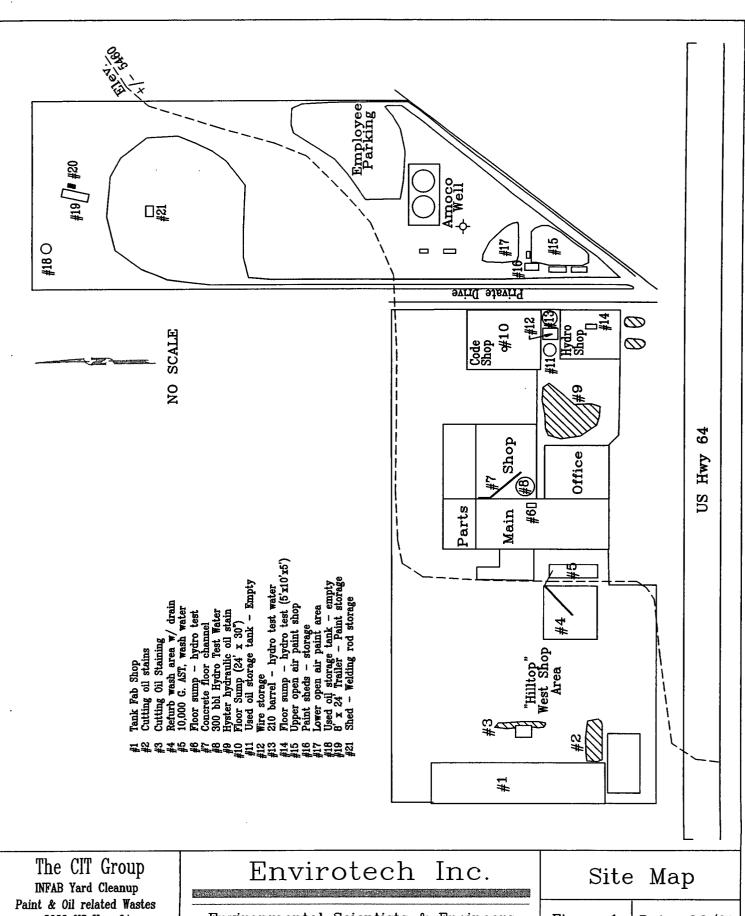
Morris D. Young President

NMCS #098

M. BROWN



nonia young



5928 US Hwy 64
Farmington, New Mexico
San Juan County, NM
Project No.: 01007-001

Environmental Scientists & Engineers 5796 US Highway 64 Farmington, New Mexico

Figure 1 Date: 06/01
DRW: HMB PRJ MGR: HMB



## Federated Environmental Associates, Inc.

April 4, 2001

Harlan M. Brown, Geologist/Hydrogeologist Envirotech, Inc. 5796 U.S. Highway 64 Farmington, New Mexico 87401

## Via First Class Mail

RE: Signatory Agent Authorization for Harlan M. Brown

Five Industrial Buildings on 12.0-Acres/Former InFab, Inc. Site

5928 U.S. Highway 64

Farmington, New Mexico 87401

Dear Mr. Brown:

Federated Environmental Associates, Inc. ("Federated") herewith authorizes Harlan M. Brown, working in the capacity of Geologist/Hydrogeologist for Envirotech, Inc., to sign as Federated's authorized agent in the proper characterization and disposal of certain chemical wastes located on the above-captioned property. Federated understands that Harlan M. Brown, working in the capacity of authorized agent in the characterization and disposal of said wastes, will complete said characterization and disposal of the chemical wastes in accordance with the laws of the State of New Mexico.

If you have questions regarding any aspect of this authorization, please contact me at the telephone number hereon.

Respectfully,

FEDERATED ENVIRONMENTAL ASSOCIATES, INC.

James C. Gossweiler, REA (CA), RHSP

Senior Vice President

Attachment: Notification of Regulated Waste Activity

cc: File #011562

Bedford Square • 1314 Bedford Avenue • Baltimore, Maryland 21208

Telephone: (410) 653-8434 Fax: (410) 653-3451 email: feaorg@aol.com

Date Received

1 0 1 0 0	PA comp ntori equin he R tecov	Formalification of the control of th	4.2 55.0	OB-12 form lested Section nserva	bef n hera 1 3010 itlan	ors The ris lot end	8		P	Ą	Uni	VA ted S	la tata	ste Env	e A Ironn	10	fix	4	į.	ency				ta t	(Fo	or O	ficia	l Use	e On	ly)
	E	A	Initl	at No	tific	atior	1		В.	Sub (Co	sequ tiple	oproj ient l te /te scific	Noti in C	ficat	lon			V		*******		COLUMN TO SERVICE SERV	Contract Contract		Yumi 7 G	10 Table 201	3	1 0		
188		202 203 V	en o	Services	3 talla	tion	F	10,200001	COLUMN TAC	100 M	R o	<b>↑</b> 7	6000	- CO - C	D Sout	9002165	F)	9000 A			8	ا د		E /		g j	L L	•	第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	Si. o
E	tree	it T	z (8	3		1	<b>s</b>		4 ,	<u>~</u> [v	Œ			4	Ĭ	) 		Ī				Î		Tale			T		T	
	Ţ		ontin	ived,				j	Ī		Ϊ				Ϊ		Ι				Ī				Ī	Ì		Ť		
F		SE TO	2 4	15000		15796	<u>.</u>	ء ا	<u>,                                    </u>	Ī	Î.	Ī	Ī		İ	Ι	Ï		State M 0		ip € 3 7		د ] د	<u>. I (</u>	Î-	Ī	Ι	İ	Ī	
Coles de S			200000000000000000000000000000000000000	3 A	4 R	1		STATE OF THE PARTY	∡ [	1000000	0X400-4605															C. Asia				
	reet	or l	*0     F				<del></del>					R			T	3		4			Ε		ا۔		R				T <sub>v</sub>	
CI	0.00	r To	Am .				) R	7	+	 T					T	T	T	200	tate	Z	p Co	SCHOOL ST		8						
V.	Ins	41	tion			100	1		73.5	tacte	d re	gard	ing	wast		livitii irst)				>										
	0 bE		5	w	9	i	(	یه[	Jr.							- A	100	S. Mary		a Co	de a	nd N	lumt	ver)						
500 A	0.000	talla	tion Addr	W 100	R	Addı	v rešs	F (See	CONTRACTOR A	ructi	ons)	>			4	l	0		6	5	3		8	4	3	4				
	eatic	n.	Mal >	lir g	B	Stre	et o	r P.C	). Bo	*   																				
		Tova	hlp (	Saa	inst		Opel												ate		Co	ie								
							al Ov	ner C	i A	R	R	7		T	TAT		1/	S	T	P		$\varepsilon$	7							
tre	et,		escent o	1 -	Routi	, Nu S	mbei	јо.  Н	j w T i	G-	Н	W	A	1 <u>-</u>	14	6	4	<b> </b>	<u> </u>	<u> </u>	1		<u>د</u>							
ity	or A	Town	M	 	N	  G-	  T		N					<b>'</b>	1. :		<b>,</b>	Sta N	te M	Zip 8	Cod 7	4	0		_ \					
. 1	ne A	lumi	) per () 	Area	72.110		d Nu	1	)			B.I	and	Type	C	.Owr	P	/pe	D. Yes	Chan lhe	ge of licato	- 30		Me	nth	ate C Da	hange iy	d Year	r.	

	ID-For C	fficial Use Only
VIII. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Ref	er (o Instructions)	
A. Hazardous Waste Activities	C. Used (	Dil Management Activities
1. Generator (See Instructions) 3. Treater: Storer Dispos i a Greater than 1000kg/mo (2,200 lbs.) installation) Note: A per 5. 100 to 1000 kg/mo (220.2 200 lbs.) required for this activity	mit is Facil	FOII Transporter/Transfer ity Indicate Type(s) of ity(les)
G Less than 100 kg/mo (220 lbs) // natructions 2. Transporter (Indicate Mode in boxes 4. Exempt Boiler and/or Indicate Mode in boxes 4.	ustrial □ a Tra Ustrial □ b:Tra	insporter: Insfer Facility
1-5 below) Furnace	Refin- Indic.	
Mode of Transportation Exemption	4. Used	pecification Used Oil Burne Oil Fuel Marketer
☐ 1: Aur ☐ 2: Rail ☐ 3: Highway	of (	rketer Who Directs Shipmer Off Specification Used Oil\td of Oil Burner
4. Water:    5 Other · specify:	□ b Mai Suse	keter Who First Claims the d Oil Meets the
	SP6	elfications
B. Universal Waste Activity  ☐ Large Quantity Handle of Universal Waste		THE STATE OF
[X] Description of Hazardous Wastes (Use additional sheets if necessary)		
A. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33: See Instructions if your	eed to list more than 12	wasie codes.)
· 2 · 3 · 3 · 4 · 4 · .	5	6 Park 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F003 8 9 10	<u> </u>	12
B. Characteristics of Nonlisted Hazardous Wastes. (Mark X* in the boxes connonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 to list more than 4 toxicity characteristic waste codes.)	responding to the char - 261.24; See instruction	ctensics of is if you need
(List specific EPA hazardous waste number 1 Ignitable - 2. Corrosive - 3. Reactive - 4.Toxicity - 1 - 1 - 1 - 2	er(s) for the Toxicity Charac	eristic contaminant(s)):
(D001), (D002), (D003) Characteristic 2		
C. Other Wastes: (State-regulated or other wastes requiring a handler to have an	I.D. number; See instruc	
		<b>6</b>
X. Certification.		
I certify under penalty of law that this document and all attachments were prepared und a system designed to assure that qualified personnel properly gather and evaluate the person or persons who manage the system, or those persons directly responsib submitted is, to the best of my knowledge and belief, true, accurate, and complete. I submitting false information, including the possibility of fine and imprisonment for k	e information submitted. le for gathering the info am aware that there are	. Based on my inquiry of rmation.
Signature Name and Official Title (Type of	<del></del>	Date Signed
Heula M Brown HARLAN M. ISEANN G	J	3.27.01
Environtech, INC, 5796 HWT 64, FARMINGTON,	العس المولاده	87401
Note: Mail completed form to the appropriate EPA Regional or State Office. (See Sec	tion IV of the booklet fo	r addresses,)



## Federated Environmental Associates, Inc.

April 4, 2001

Jack Ford New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa fe, New Mexico 87401

#### Via First Class Mail

RE: Notification of Termination of Operations/Request for Discharge Plan Closure Five Industrial Buildings on 12.0-Acres/Former InFab, Inc. Site 5928 U.S. Highway 64 Farmington, New Mexico 87401

Dear Mr. Ford:

Federated Environmental Associates, Inc. notifies herewith the New Mexico Oil Conservation Division (NMOCD) that the above company has entered bankruptcy, and has ceased operations on-site. Federated Environmental requests, based on completion of the regulated waste removal currently in progress, the NMOCD inspect the facility for compliance with INFAB's Closure Plan, and close the Discharge Plan issued to INFAB. The remediation efforts underway on-site include the removal of surface soils containing petroleum hydrocarbons and the removal and disposal of various containerized liquid and solid wastes.

Thank you for your efforts in this matter. If you have any questions regarding any aspect of this matter, please contact me at the telephone number hereon or the local contact, Harlan M. Brown, at Envirotech, Inc. (505 632-0615).

Respectfully,

FEDERATED ENVIRONMENTAL ASSOCIATES, INC.

James C. Gossweiler, REA (CA), RHSP

Senior Vice President

cc: Denny Foust, NMOCD Aztec Office

File #011562

Bedford Square • 1314 Bedford Avenue • Baltimore, Maryland 21208

Telephone: (410) 653-8434 Fax: (410) 653-3451 email: feaorg@aol.com

## ENVIROTECH INC.

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

November 8, 2000

Federated Environmental Associates

Attn: Patrick Houp Bedford Square 1314 Bedford Avenue Baltimore, Maryland 21208

410-653-8434

. 7.5

A STATE OF THE STA

.iv. (4

34

阿爾

N. 19

74

sa.p

20

 $x_{i}$ 

4.

\*

11.4

Fax 410-653-3451

Description of the second

Oily soil, stored water, and paint waste cleanup at In-Fab yard, Farmington, New Mexico

Dear Patrick:

Re:

Envirotech is pleased to provide a quote for cleanup of various waste streams at the InFab Yard in Farmington, New Mexico. We review the areas addressed by the scope of work provided by your office and offer the following work plan for each item:

1) Waste drums containing soils, machine parts, scrap metal, rain water, etc. (characterize and remove if hazardous).

We recommend collecting a composite sample from drums containing oily soil, scrap metal, and machine parts. (We have assumed that drums containing scrap metal only will be left on-site with other flat and rolled steel stock.) Drums that clearly contain oily soil will be profiled. We recommend RCRA 8 Metals analysis and RCRA RCI to eliminate metals contamination. Total petroleum Hydrocarbon Contamination is clearly evident. Envirotech can provide remediation service for TPH contamination at a reasonable cost.

Five drums of water were located together on pallets where anti-freeze was collected. We recommend compositing the drums for analysis of RCRA 8 Metals and RCRA RCI. (At least one of these drums appeared to be greater than half full of mud.) With proper profiling we can probably handle these drums at our landfarm as well.

2) Non-hazardous paint waste on-site. Leave new, sealed paint containers on-site. Also, give price to remove/dispose of all paints found on-site.

All of the paint containers we observed were labeled as combustible or had distinctive xylene odors associated with their contents. We recommend that the paint wastes be bulked into liquid drums (flammable liquids) and sludge or solids drums (flammable solids) for disposal. Empty paint skulls will then be disposed of as debris at the local landfill or at a metal recycling business. We estimate that there approximately 9 drums of flammable liquids to be disposed of and another 5 drums of flammable solids. Note that at the northwest corner of the main shop building there is a six foot diameter by four foot deep tank with approximately 3.5 inches of paint waste (spent xylene bottoms?).

Page Two FEA Haz Quote In-Fab Yard

Removal of product (diesel and gasoline) in the two ASTs located at the eastern side of the property.

Both tanks appeared to be empty. (If residual diesel is present we will provide disposal through an EPA permitted contractor at nominal cost. If residual gasoline is found it will be handled as flammable liquid - unleaded gasoline.)

1200

1

.....

de Z

が建

2

\* 3

>名響

22.4餐

103

Removal of any / all drums that are open but still contain product (e.g. anti-freeze, motor oils, hydraulic oils, hydraulic fluids).

Most of the open drums containing useable product were located in the shop located at the southeast comer of the property. We are assuming that five gallon buckets of suspect oil would drummed for disposal as burner fuel. The half of the drums may be useable product that we could transfer to others for use. Non-typical hydraulic oils would be bulked out as burner fuel.

5) Removal of any wastes that your company identifies as being regulated or hazardous during your site visit.

There are at least five drurfts of garbage that should be sorted to insure that hazardous materials are not in the drums. Garbage left after inspecting the drums would be bagged and delivered to the local landfill.

We anticipate generating one drum of aerosol cans which varying amounts of product in each. We also anticipate generating two or three drums of one gallon paint cans containing varying amounts of product. Both of these waste streams would be shipped as flammable liquids.

Several locations were noted that should have soil analysis conducted. They are noted as follows with recommended analysis:

Wash rack "Hilltop Gang" area: Oll & Gas E & P related waste, Exempt

Cutting & Burning area "Hiltop Gang Area; RCRA 8 Metals"

Oil Staining near office and spots around yard; Composite RCRA 8 Metals, BTEX (USEPA Method 8021). TPH (USEPA Method 8015), and RCI

Outside Paint Shop, high gad, composite - RCRA 8 Metals, BTEX (USEPA 8021), RCI

Outside Paint Shop, low pad, composite - RCRA 8 Metals, BTEX (USEPA 8021), RCI

Shop Floors; Should be swept and dirt analyzed - RCRA 8 Metals

Floor Sumps

Main Shop West (Assembly & Rigout Shops) - RCRA 8 Metals, BTEX (USEPA 8021), RCI Main Shop East (Code Shop) - RCRA 8 Metals Small Shop SE (Hydro test Shop) - TCLP w/o Herbs & Pests

Page Three FEA Haz Quote In-Fab Yard

Inventory of containers and contaminants found by area:

"Hilltop Gang" Area - Skid & Tank Shop

1) Oily Dirt/parts in floor grade and on pad at wash pad

a) 9 - 55 gallon drums

b) 2 cubic yards bulk soll in trough and on pad

2) 1 - 55 gallon hose clamps

3) 1 - 5 gallon hose clamps at north fence

4) Oily dirt/parts north fence

- a) 5 55 gallon drums
- b) 1 55 gallon drum metal parts

5) 4.5' x 6' open tank

- a) 2 55 gallon drums (estimated) spent xylene bottoms
- 6) 15 gallon cutting oils in various containers (5 gal bucket, coffee cans, and Band saw)

ंक्

Ť

ではる

東京

The state of the s

11111

7) 28 - 5 gallon paint buckets; Should bulk to:

- a) 2 55 gallon flamittable liquids
- b) 2 55 gallon flammable solids
- 8) 11' x 14' Wash water tank; Volume unknown (Exempt Wash Water)

9) 1 - 55 gallon drum - empty:

10) +/- 10 aerosol and gallon or less misc. products

Main Shop West (Assembly area, Sub-assemblies area, & Rig Out Shop)

- 1) 2 5 gallon cutting oil
- 2) 1 55 gallon garbage
- 3) 10 5 gallon flammable paints, reduce to;

a) 1 - 55 gallon paint waste (flammable liquid)

- 4) Floor sump full of water, unknown dimensions, expect water and sludge debris
- 5) 180 bbl Hydrostatic test water tank (exempt dispose at injection facility)

Gantry area between east and west shop

1) 2 - 55 gallon garbage

Main Shop East (Code Shop)

- 1) 1 55 gallon garbage
- 2) Floor sump, 3' diameter unknown depth, expect water and sludge.
- 3) 1 55 gallon closed top steel; empty, SW corner of building, outside
- 4) 4 55 gallon drums (poly); spent antifreeze (?), SW comer outside, (RCRA 8 Metals analysis on sludge and RCRA 8 Metals analysis on liquid phase. (Sampling could be conducted as composite of all drums or by phase for each drum).

## Page Four FEA Haz Quote In-Fab Yard

- 5) 1 55 gallon specialty Hydraulic Oil
- 6) 1000 gallon Used Oil Tank Empty; rainwater in secondary containment
- 7) 170 barrel tank hydrostatic test water (exempt dispose at injection facility)

## Hydro Shop (southeast building)

- 1) 5 55 gallon open drums on cradle oils of various grades
- 2) 2 30 gallon grease
- 3) 1 30 gallon (estimated) aerosols (Flam Liq)
- 4) 6 55 gallon empties
- 5) 14 5 gallon oils? Bulk tox
  - a) 2 55 gallon oils

## Paint area - High pad and low pad east of Code and Hydrotest shops

- 1) 7 55 gallon drums paint waste; Reduce to
  - a) 2 55 gallon drums Flam Liq
- 2) 2 55 gallon paint pot drains; Flammable solids
- 3) 22 5 gallon combustible paints; reduce to:
  - a) 2 55 gallon drums Flam Liq
- 4) Paint shed; Reduce all the following to 1-55 gallon Flam Liq
  - a) 6 5 gallon flammable liquids
  - b) 8 1 gallon flammable liquids
  - c) 10 1 gallon water reducible epoxy primers
- 5) 1 55 gallon drum paint contaminated soil; flam solid
- 6) 2 55 gallon xylene bottoms; 1- flam liq & 1- flam solid

## Storage Yard North

- 1) 1 55 gallon garbage at parking area
- 2) 9 55 gallon drums oily soil
- 3) 5 55 gallon spent xylene bottoms
- 4) 18 5 gallon paint waste; reduce to:
  - a) 1 55 gallon flam solid
- 5) 4 5 gallon paint; reduce to; (may be good product; ovemlight temperatures have been to 15°F

THE PROPERTY OF THE PARTY OF TH

- a) 1 55 gallon flam lig
- 6) 1 1000 gallon used oil tank empty
- 7) 1 250 gallon AST empty

Note that there are several hundred pounds of welding rod, steel welding wire, and copper welding wire not addressed in this proposal.

Page Five FEA Haz Quote In-Fab Yard

1. 1. W. 1

が終れた。

10 XII.

THE COME !

機利能

130

73

We suspect that several areas of soil staining are related to operation of an old hyster forklift (hydraulic oil leaks). Since we are not positive of the source we recommend sampling the stained areas under a single composite sample for analysis for BTEX constituents (USEPA 8021), TPH constituents (USEPA 8015), RCRA 8 Metals, and RCRA RCI. If metals are not found and the samples pass RCRA RCI analysis, the soil could be excavated at stained locations and sent to Envirotech's Soil Remediation Facility. Landfarm #2 for remediation of petroleum hydrocarbon contaminants. This facility is permitted through the New Mexico Oil Conservation Division to handle petroleum hydrocarbon contaminated soil from oil and gas production companies and oilfield service companies (InFab is listed as an oilfield service company).

25

038

7.4.75

77.3

> 高谱

1 16.16

12 B

Section N

: 220 3

0.00

. de A

30.3

**斯蒙** 

(1) (1) (1)

Stained soil was also noted at the wash rack on the Hilltop Gang location. In addition to drums, there are approximately two cubic yards that will need to be shoveled out of the drain trench that crosses the wash pad. These wastes are exempt per the NMOCD Field Inspector familiar with the site. The waste stream can go to Landfarm #2 for remediation.

Water stored in the two hydro test tanks is exempt and can be disposed of locally at a water injection facility. Water from the wash rack is probably exempt waste, generated during washing oilfield exempt equipment such as separators, deliverators, production tanks, and other oil and natural gas production equipment.

Costs associated with cleanup of the this site are as follows:

Į.	v .				
Labor (bulk paint wastes; di	rush paint cans and non-DOT drur	ns)		,200.0	
Tyvek 2	* · ·			240.0	
Drums (24 - DOT 1A2 open	head shipping Drums)		\$.1	,176.0	)0
Backhoe	*		<b>\$</b> 2	,400.0	00
Soil acceptance fees (reme	diation of 40 cy)		\$	720.0	00
Soil acceptance fees (reme	diation of 18 drums oily soil)		\$	324.0	00
Soil Transport			\$	420.0	)0
Oil disposal (5 drums)	· ·		\$	250.0	00
Trash disposal (barreled de	Říts only)		\$	50.0	00
Flammable Liquids (17 -55			\$3	,315.0	
Flammable Solids (6 - 55)				,730.0	
Overpack - aerosols (1-55)				455.0	
			•	455.0	
Overpack - gallon cans (1)					
	sport (assumes shared transport)			350.0	
Hazardous Material - Labor	(load for transport)		\$	280.0	00
Laboratory Analysis					
UŠEPA 8021 - BT	<b>X</b> (5)		\$	440.0	00
USEPA 8015 - TPH			\$	400.0	00
RCRA 8 Metals (4)	With the control of t		\$	460.0	00
RCRA RCI (4)	*		\$	60.0	00
TCLP w/o Herbs	Pests		\$	995.0	00
	ampling oily soil and paint pads		\$	120.0	00
Environmental Scientist -	roject Management (field & report	)	\$1	,200.	00
Exempt Water Disposal - In	90 bbl, assumes all 3 tanks are fi	ıll. no oil)		,500.	
Exempt Water Transport -		· , · · · · · · · · · · · · · · · · · ·		.560.0	
Exempt water transport	i iyaas	Total			
űý.	¥11	Total	<b>922</b>	,800.0	UU

Page Six FEA Haz Quote In-Fab Yard

We have attempted to slightly over estimate volumes for hazardous waste disposal and for disposal of exempt water stored on-site. If we have succeeded there will be a credit on the proposed price for drums or water not shipped (billing will be for actual amounts of material shipped).

If you find this proposal acceptable we will need to profile the waste stream prior to shipment and complete the necessary paperwork for the generator. The size of this shipment will require at least Small Quantity Generator Status (10 day Waste). We will need to get the generator's EPA ID#, contact person, contact phone number, return address for the Uniform Hazardous Waste Manifest and/or authorization to sign as the generator's agent if they are not available to sign the manifests. Document preparation will require ten days advance notice to allow scheduling to meet ten day requirements for disposal.

As mentioned in our phone conversation on November 9, 2000, there is or should be a Closure Plan for this facility with the New Mexico Oil Conservation Division. We attempted to contact the project manager for this site today but he is out of the office until Monday. We strongly recommend that the workplan for cleanup of this property be coordinated with the NMOCD to insure their approval of exit activities by the current owner.

The costs quoted here do not include any applicable taxes. Terms of payment are net thirty days with 1.5% monthly interest on the outstanding balance. To accept this proposal please provide a purchase order or sign where indicated below and return a copy to our office by fax.

The work conducted under this proposal includes a letter report documenting cleanup efforts at the site and copies of all Bills of Lading and Shipping manifests for materials removed from the site. The scope of work does not include steam cleaning any equipment, concrete or other permanent infrastructure.

In the event that an environmental issue is found during the coarse of completing this work that has not yet been addressed in this proposal, we will contact your office immediately for direction and / or approval to proceed with work beyond that which is herein described.

If you have further questions or comments regarding this proposal please feel free to contact our office at 505-632-0615.

Po # 011562

Sincerely,

Envirotech Inc.

Harlan M. Brown Geologist / Hydrogeologist New Mexico Certified Scientist #083 Acceptance:

**Eignature** 

1-15-0

Title

)ate

20.00

,1...2

ine pr

21.13

100

in.ar

宇佑

# IROTECH LABS

## SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Sample ID: Federated Environmental

Project #: Date Reported: 01007-001

Lab ID#:

Oily Soil 19234

Date Sampled:

02-26-01 02-22-01

Sample Matrix:

Soil

Date Received:

02-22-01

Preservative:

Cool

Date Analyzed:

02-23-01

Condition:

Cool and Intact

Chain of Custody:

8514

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 7.07

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

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

CORROSIVITY:

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

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

REACTIVITY:

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

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

Reference:

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

Comments:

**INFAB Yard** 13 drum composite.



#### TRACE METAL ANALYSIS

Federated Environmental	Project #:	01007-001
Oily Soil	Date Reported:	02-26-01
19234	Date Sampled:	02-22-01
8514	Date Received:	02-22-01
Soil	Date Analyzed:	02-26-01
Cool	Date Digested:	02-26-01
Cool & Intact	Analysis Needed:	RCRA Metals
	Oily Soil 19234 8514 Soil Cool	Oily Soil Date Reported: 19234 Date Sampled: 8514 Date Received: Soil Date Analyzed: Cool Date Digested:

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

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB Yard

13 drum composite.

Analyst

Review

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

RRACTICALESOLUTIONS FOR A BETTIER TOMORROW

## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

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

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

Spike:	Spike	Samp	le – Spiked	Percent	. Acceptance
Conc. (mg/Kg)	: Added		Sample	Recovery	Range .
Arsenic	1.00	ND	0.996	99.6%	80% - 120%
Barium	1.00	ND	0.996	99.6%	80% - 120%
Cadmium	1.00	ND	0.998	99.8%	80% - 120%
Chromium	1.00	ND	0.994	99.4%	80% - 120%
Lead	1.00	ND	0.996	99.6%	80% - 120%
Mercury	0.100	ND	0.098	98.0%	80% - 120%
Selenium	1.00	ND	0.994	99.4%	80% - 120%
Silver	1.00	ND	0.998	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 19234.

Analyst

Review

CHAIN OF CUSTODY RECORD

08514

FEDERATES ENVIronmodal	JEAN YE	4		  -  -	ANALYSIS / PARAMETERS	RAMETERS		
Client No.	or 7007	_	o of siners	RA II FO LACS			Remarks	
Sample Sample Le	Lab Number	Sample Matrix		え つと つと				
7 0):6 10:22.2	19234 S	S.; (		7		13 di	drown Con	Composit
Relinquished by: (Signature)	Date スシスク(	Time (/// 0	Received by	Received by: (Signature)			Date 5.05.4	Time ///
Relinquished by: (Signature)			Received by	Received by: (Signature)				
Relinquished by: (Signature)			Received by	Received by: (Signature)				
	EO	ROT	고	VIROTECH INC.		Samp	Sample Receipt	
							>	Z Z
	Farm	5796 U.S. Highway 64 nington, New Mexico 8	Highway w Mexico	64 5 87401		Received Intact	1	
		(505) 632-0615	32-0615			Cool - Ice/Blue Ice	38	

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client: Sample ID: Federated Environmental Hilltop Stains

Project #:
Date Reported:

01007-001 03-01-01

Lab ID#:

19315 Soil Date Sampled: Date Received: 02-27-01

Sample Matrix: Preservative:

Cool

Date Analyzed:

02-27-01 02-28-01

Condition:

Cool and Intact

Chain of Custody:

8529

Parameter

Result

IGNITABILITY:

**Negative** 

**CORROSIVITY:** 

Negative

pH = 6.67

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

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

CORROSIVITY:

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

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

REACTIVITY:

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

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

Reference:

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

Comments:

INFAB.

Analyst

Dem P. Ofence

## TRACE METAL ANALYSIS

Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Anti-Freeze Drums	Date Reported:	03-01-01
Laboratory Number:	19310	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

		Det.	Regulatory
	Concentration Co	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.030	0.001	5.0
Barium	0.139	0.001	100
Cadmium	0.038	0.001	1.0
Chromium	0.017	0.001	5.0
Lead	0.266	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.012	0.001	1.0
Silver	0.031	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Analyst C. Office.

Mistrim Walls

## TRACE METAL ANALYSIS

i i	•		
Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Code Shop Sump	Date Reported:	03-01-01
Laboratory Number:	19311	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
		·	
Arsenic	ND	0.001	5.0
Barium	0.012	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Den L-Cederen

Mistis on Warland

#### TRACE METAL ANALYSIS

Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Main Shop Sump	Date Reported:	03-01-01
Laboratory Number:	19312	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

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

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

## TRACE METAL ANALYSIS

•			
Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Upper Paint Area	Date Reported:	03-01-01
Laboratory Number:	19313	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Soil	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
<b>A</b>	0.420	0.000	5.0
Arsenic	0.136	0.002	5.0
Barium	3.68	0.002	100
Cadmium	0.108	0.002	1.0
Chromium	0.072	0.002	5.0
Lead	0.816	0.002	5.0
Mercury	0.014	0.002	0.2
Selenium	0.058	0.002	1.0
Silver	0.052	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

 $\label{eq:Method 3050B} \mbox{Method 3050B, Acid Digestion of Sediments, Sludges and Soils.}$ 

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Allen L. (\*) Analyst / Mustine my Walter

The view

## TRACE METAL ANALYSIS

Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Lower Paint Area	Date Reported:	03-01-01
Laboratory Number:	19314	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Soil	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.264	0.002	5.0
Barium	4.58	0.002	100
Cadmium	0.238	0.002	1.0
Chromium	0.374	0.002	5.0
Lead	ND	0.002	5.0
Mercury	ND	0.002	0.2
Selenium	0.114	0.002	1.0
Silver	0.062	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Allew L. Cell

Review Mister My Woolen

#### TRACE METAL ANALYSIS

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

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.660	0.002	5.0
Barium	3.94	0.002	100
Cadmium	0.624	0.002	1.0
Chromium	1.64	0.002	5.0
Lead	8.46	0.002	5.0
Mercury	ND	0.002	0.2
Selenium	0.428	0.002	1.0
Silver	0.124	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Alexa L. Cyleren

Mister of Waller Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

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

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

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

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19310 - 19315.

Deur C. Gleern Analyst

Review Malter

# CHAIN OF CUSTODY RECORD

08529

	04	Project Location		ANALYSIS / PARAMETERS	AMETERS
FEDERACES ENDINAMENT	And Investor	THE			
Sampler: HARLAND W. Browd	1	Client No. 01007	100-20010	o. of ainers RA SA SA SA	Remarks
Sample No./ Sample Identification Date	ple Sample e Time	Lab Number	Sample Matrix	stnoO	
ANTI. FREEE 2.27.0(	7:55	19310	4,04,0	\	
Codes HOP Sump 2.27		19311	Lianio	_	
MAND SHOP Sump 2.27	50:01 6		Lieuib	7	
Upper DasutArea 2.27	52:0) L		Soil	7	
Lower Paint Area 2.27	DE:41 (-	19314	50 ù(	>	
Hill top 2.27	a);01 L	19315	So:	7	
Relinquished by: (Signature)			Date Time Rece	Received by: (Signature)	Date Time. 2.22.0 / 15.3
Relinquished by: (Signature)				Received by: (Signature)	
Relinquished by: (Signature)			Rece	Received by: (Signature)	
			<b>ENVIROTECH INC</b>	CH IOC	Sample Receipt
		1 1 <b>41</b>			Y N N/A
			5796 U.S. Highway 64 Farmington, New Mexico 87401	hway 64 Jexico 87401	Received Intact
			(505) 632-0615	0615	Cool - Ice/Blue Ice

#### IVIROTECH LABS SOLUTIONS FOR A BETTER TOMORROW.

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:

Federated Environmental

01007-001

Sample ID:

Hydro Shop Sump

Lab ID#:

19317

03-01-01

Sample Matrix:

Liquid

02-27-01

Preservative:

Cool

Date Received: 02-27-01 Date Analyzed: 02-28-01

Condition:

Cool and Intact

Chain of Custody:

Project #:

Date Reported:

Date Sampled:

8530

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 6.69

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

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

CORROSIVITY:

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

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

REACTIVITY:

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

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

Reference:

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

Comments:

INFAB.

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

			•
Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-02-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Extracted:	NA <sup>-</sup>
Preservative:	Cool	Date Analyzed:	03-02-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.212	0.0001	200
Chloroform `	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0216	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	0.0030	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 98% 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:

INFAB.

Analyst C. Office

Misteriem Walters
Review



#### EPA METHOD 8040 PHENOLS

*			
Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-12-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-12-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

INFAB.

Alexander L. Queman

Mristine m Walten
Review



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

•			
Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-12-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-12-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	1.22	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.040	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:

INFAB.

Analyst C. Offeren

Mister M Walters
Review

# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

•		·	
Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-01-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool	Date Extracted:	NA
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	•	Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
•			
Arsenic	0.019	0.001	5.0
Barium	0.431	0.001	100
Cadmium	0.018	0.001	1.0
Chromium	0.008	0.001	5.0
Lead	0.446	0.001	5.0
Mercury	0.009	0.001	0.2
Selenium	0.004	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Dieem L. Chleeren

Mistui m Wallers
Review



# QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

5700 U.C. Hickman 64 & Farmington, NM 87401 e Tol 505 e 632 e 0615 e Fay 505 e 632 e 1865

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

			*
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-02-01
Laboratory Number:	03-02-TCV	Date Sampled:	, N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-02-01
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-an	id-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA,	, Sept. 1994.	
4	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.	
Note:	Regulatory Limits based	d on 40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.	
Comments:	QA/QC for sample	s 19316 - 19318.		

Analyst Cycles

Mistri m Walter

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-02-01
Laboratory Number:	19316	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	03-02-01
Condition:	N/A	Date Extracted:	N/A

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.017	0.017	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.036	0.036	0,0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

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

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

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

Comments:

QA/QC for samples 19316 - 19318.

Analyst C. Ogleenen

Misting Walter

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

Client: QA/QC Project #: N/A Sample ID: Matrix Spike Date Reported: 03-02-01 Laboratory Number: 19316 Date Sampled: N/A Sample Matrix: Water Date Received: N/A **TCLP** 03-02-01 Analysis Requested: Date Analyzed: N/A Date Extracted: Condition: N/A

·			Spiked			SW-846
	Sample	Spike	Sample Result	Det.	Percent Recovery	% Rec.
	Result	Added		Limit		Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)		Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0172	0.050	0.0662	0.0001	99%	47-132
Chloroform	ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	0.0361	0.050	0.0856	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

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

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

**Comments:** 

**QA/QC** for samples 19316 - 19318.

Allen C. Officer

Mistrie M Walters Review



#### EPA METHOD 8040 PHENOLS

### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-12-01
Laboratory Number:	03-12-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-12-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	overies: Parameter Percent Rec	
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %
		•

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

QA/QC for samples 19316 - 19318.

Alexan L. Caperer

Christin m Walters
Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client: QA/QC Project #: N/A 03-12-01 Sample ID: Matrix Duplicate Date Reported: 19316 Date Sampled: Laboratory Number: N/A Date Received: Sample Matrix: Water N/A Preservative: Cool Date Extracted: N/A Condition: Cool & Intact Date Analyzed: 03-12-01 Analysis Requested: TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.130	0.128	0.040	2.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

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 19316 - 19318.

Den C. Cejena

Mistire m Wasten
Review

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-12-01
Laboratory Number:	03-12-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	03-12-01
•	•	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	101%

References:

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

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

Note:

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

Comments:

QA/QC for samples 19316 - 19318.

Analyst L. Offeren

Pristri m Wallen
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:	03-12-01
Laboratory Number:	19316	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Ñ/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	03-12-01
	•	Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.061	0.061	0.0%	0.020
Hexachloroethane	0.051	0.050	1.0%	0.020
Nitrobenzene	0.054	0.054	0.0%	0.020
Hexachlorobutadiene	0.184	0.182	1.1%	0.020
2,4-Dinitrotoluene	0.030	0.030	0.0%	0.020
HexachloroBenzene	0.086	0.085	1.8%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Maximum Difference
		8090 Compounds	30%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, SV	V-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 19316 - 19318.

Aller L. Offeren

Review Mustine m Walters

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

Client:	QA/QC	Project #:	N/A
Sample ID:	03-01-TCM QA/QC	Date Reported:	03-01-01
Laboratory Number:	19316	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	03-01-01
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% 0.105	Acceptance 0.107
Arsenic	ND	ND	0.001	0.012	0.012	0.0%	0% - 30%
Barium	ND	ND	0.001	0.050	0.049	2.0%	0% - 30%
Cadmium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Lead	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Silver	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	s Spiked Sample	2004	Acceptance Range
					<b></b>
Arsenic	0.500	0.012	0.512	100.0%	80% - 120%
Barium	0.500	0.050	0.548	99.6%	80% - 120%
Cadmium	0.500	0.001	0.500	99.8%	80% - 120%
Chromium	0.500	0.003	0.503	100.0%	80% - 120%
Lead	0.500	0.013	0.512	99.8%	80% - 120%
Mercury	0.050	NĎ	0.049	98.0%	80% - 120%
Selenium	0.500	0.002	0.502	100.0%	80% - 120%
Silver	0.500	0.006	0.505	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.

 ${\it Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total \, Metals,}$ 

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19316 - 19318.

Dew L. Cefecce

Review

9....

# CHAIN OF CUSTODY RECORD

08530

RAMETERS	Remarks							Date Time 2/27/0/ //://	1		Sample Receipt	X X	Received Intact	Cooi - ios/21/49 loe
ANALYSIS / PARAMETERS	or sanis P P B+H (	stnoO	5					Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	VIROTECH INC		Jhway 64 Mexico 87401	0615
00 CD	)00-201	Sample Matrix	Lianip					Date Time Rece	Rece	Rece	ENVIROTE		5796 U.S. Highway 64 Estraienton New Mexico 87401	200.289 (202)
Project Location	Client No. 0(007-00 (	Lab Number	19317											ng etnam 6 (fina gapt spring or age age age age age.
i .		Sample Time	11:05					0						
ורואסמוטו	8000	Sample Date	02.27.0					nature)	re)	re)				e de la composiçõe de l
Client / Project Name	Sampler: HARLAN M. Brown	Sample No./ Identification	Hydra Step pSurp					Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)			,	to a series of the series of t

District.1
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

APPROVED BY:

APPROVED BY:

## State of New Mexico Energy Minerals and Natural Resources Oil Consequation Division

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

2040 South Pacheco, Santa Fe. NM 87505 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE Rede 24 ted 4. Generator Non-Exempt: 1. RCRA Exempt: ENVIRONMENTAL SERVICES 5. Originating Site Verbal Approval Received: Yes TANKIN YARD 2. Management Facility Destination KEY DISPOSAL 6. Transporter Key #345 Cl 3500 Aztec NM 8. State 3. Address of Facility Operator NM 5928 US HWY 64 7. Location of Material Street Address or ULSTR) FARMINETON, N.M. Circle One: (A)All requests for approval to accept offfield exempt wastes will be accompanied by a certification of waste from the Generator: one certificate per ion. B. All Feduests 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: from wishing Exempt field production Equipment. 1 Estimated Nolume 240 66/s av Known Volume (to be entered by the operator at the end of the haul) SIGNATURE TITLE: MGG-DATE: 3-27-01 waste Management Facility Authorized Agent TYPE OR PRINT NAME: MICHAEL TALOUICH TELEPHONE NO. 505.334-6186 (This space for State Use)



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-617

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

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

·	
· · · · · · · · · · · · · · · · · · ·	
1. Generator Name and Address: FEDERATED EDVITORMENTAL Services BEDFORD Square, 1314 BEDFORD AVE.	2. Destination Name: Key Evergy Sorvices, Disposal Facil # 345 County ROAD 3500
Baltimore, Herrinan 21208	AZTEC, NILL 87410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Infab	
5928 US HWY 64	
FARMING TOW, New MExico Attach list of originating sites as appropriate	
4. Source and Description of Waste	
WATER From WASHING EX	compt field production en
(TANK @ WHSH PAD -Hill	Top GANG Area). < 240 bbls
HARLAD M Brown  (Print Name)  FEDERATED ENVIOUM AND A Recover  coording to the Resource Conservation and Recover  988, regulatory determination, the above described to	y Act (RCRA) and Environmental Protection Agency's July
EXEMPT oilfield waste NON-EXEM	PT oilfield waste which is non-hazardous by characteristic by product identification
nd that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
or NON-EXEMPT waste the following documental  MSDS Information  RCRA Hazardous Waste Analysis  Chain of Custody	tion is attached (check appropriate items): Other (description):
his waste is in compliance with Regulated Levels of No. 20 NMAC 3.1 subpart 1403.C and D.	aturally Occurring Radioactive Material (NORM) pursua n
ame (Original Signature): Howard The Bes	
tle: GEOLDEIST - Proj. M HANT	K & EUD

1625 N. French Dr., Hobbs, NM \$240 District II 811 South First, Artesia. NM \$210 Degrine III 1000 Rio Brazos Road. Aztec, NM 87410 District IV. 2040 South Pacheco, Santa Fe. NM 87505

# Energy Minerals and Natural Resources Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ALTROVAL TO ACCEL TO	JOHD WASIL
1. RCRA Exempt: Non-Exempt: 🔯	4. Generator Federated Services
Verbal Approval Received: Yes F., No	5. Originating Site INFAB  VALO
2. Management Facility Destination Key DISPOSAL	6. Transporter Ley
3. Address of Facility Operator #345 CR 3500, AZIEC, NM	8. State WM
7. Location of Material (Street Address or ULSTR) 5928 US Hwy 64 FARMIDGON, NM 87401	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a one certificate per job.  All requests for approval to accept non-exempt wastes must be accompanied by necessarial is not-hazardous and the Generator's certification of origin. No waste class approved  All transporters must certify the wastes delivered are only those consigned for transpo	cessary chemical analysts to PROVE the sified hazardous by listing or testing will be
BRIEF DESCRIPTION OF MATERIAL:	
Water From Hydrotest talks, Code Sho	p Floor sump,
MAIS Shop Floor sump, AND DRUMS / 464	ed-Antibreeze
1) I American	2001
Estimated Volume 100066 cy Known Volume (to be entered by the open	ator at the end of the naulcy
SIGNATURE Management Facility Authorized Agent  Waste Management Facility Authorized Agent	DATE: 3-27-01
TYPE OR PRINT NAME: MICHAEL TALOUICK TELEP	PHONE NO. 505-334-686
(This space for State Use)	· · · · · · · · · · · · · · · · · · ·
APPROVED BY: Lever tour TITLE: Geeleg	DATE: 3/27/01
APPROVED BY: Martin of the TITLE: Environment	untel Godosst DATE: \$-3-01



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-61

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

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

•	
1. Generator Name and Address: FEBERATED FAUITONN autal Survice BED Ford Square, 1314 Bedford Aue	2. Destination Name:  Key Evergy Services - Disposal Facilite
BED Ford Square, 1314 Bedford hove	#345 County Rd 3500
Beltimore, alerrland 21208	AZTEC, NW. 87410
3. Originating Site (name): エルドムB	Location of the Waste (Street address &/or ULSTR):
5928 US How 64	
FARmington, DU 87401	
Attach list of originating sites as appropriate 4. Source and Description of Waste	
	· · · · · · · · · · · · · · · · · ·
water from Figures fatec 1	EST LANCS, Code SHOP HOOR Sump
Main suop Floor sump, and	EST TANKS, Code SHOP Floor Sump, drums Lababed ANTI. Freeze.
HARLAND M. Brown	representative for:
HARLAND M. Brown (Print Name)	
	do hereby certify that
ccording to the Resource Conservation and Recover 988, regulatory determination, the above described to	y Act (RCRA) and Environmental Protection Agency's July
988, regulatory determination, the above described v	Waste is: (Check appropriate classification)
	PT oilfield waste which is non-hazardous by characteristic by product identification
nd that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
or NON-EXEMPT waste the following documentat	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis (1	Total blushals)
_x Chain of Custody	
his waste is in compliance with Regulated Levels of N	laturally Occurring Radioactive Material (NORM) pursuan
20 NMAC 3.1 subpart 1403.C and D.	economy coopering the coopering the control of the coopering the cooperi
ame (Original Signature): Handandur	Blow
tle: GEOLDGIST - Project b	1 AN HOER

#### PEANOTICAL SOLUTIONS FOR A BESTER TOMORROW

#### TRACE METAL ANALYSIS

Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Anti-Freeze Drums	Date Reported:	03-01-01
Laboratory Number:	19310	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

	Concentration	Det. Limit	Regulatory Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.030	0.001	5.0
Barium	0.139	0.001	100
Cadmium	0.038	0.001	1.0
Chromium	0.017	0.001	5.0
Lead	0.266	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.012	0.001	1.0
Silver	0.031	0.001	<b>5.0</b>

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Deec C. Ofeece

Review

#### REACHTEAN SOLUTIONS FOR A BENEFATOWORROW

#### TRACE METAL ANALYSIS

•	,		
Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Code Shop Sump	Date Reported:	03-01-01
Laboratory Number:	19311	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
	· · · ·		•
Arsenic	ND	0.001	5.0
Barium	0.012	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Analyst

Christin on Warter Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Federation Environmental	Project #:	01007-001
Sample ID:	Main Shop Sump	Date Reported:	03-01-01
Laboratory Number:	19312	Date Sampled:	02-27-01
Chain of Custody:	8529	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool ·	Date Digested:	03-01-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.003	0.001	5.0
Barium	0.011	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Analyst L. Oplewan

Misting Maelen

## TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

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

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

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

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19310 - 19315.

Deur L. Giern Analyst Christing Walter

# CHAIN OF CUSTODY RECORD

08529

	ı								
ent / Project Name	ENUISMMENTED		Project Location			ANA	ANALYSIS / PARAMETERS		
Impler: HARLMU M. Brown	3 0		Client No. 01007	100-200	o. oo	S 45 S S S S S S S S S S S S S S S S S S		Remarks	rks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	ON				
	2.27.0(	4:55	19310	Lightin	1	\			
odes HOP Sump	2.27	00:07	19311	Lianin	ا ا				
(41)2 StoP Sump	72.27	50:01		Liguin	1,0	7			
pper besithera	2.27	(0:25		Soil	)	7			
war Paint Arrea	227	(0,30)	19314	\$000	);(	7			
till top Status	2.27	ap;01	19315	Ϋ́		7			
elinquished by: (Signature)	( )			i .		Received by: (Signature)		Date	Time
elinquished by: (Signature)	(e)			76.70		Heceived by: (Signature)	Car	7.27.01	52.00 10
elinquished by: (Signature)	(e)				Received by	Received by: (Signature)			
				ENIRC	IVIROTECH INC			Sample Receipt	- jō
				1100				<b>&gt;</b>	N/A
				5796 C Farmington	5790 U.S. Filgnway 64 Farmington, New Mexico 87401	o 87401	Receiv	Received Intact	
				(20	(505) 632-0615		Cool - Ic	Cool - Ice/Blue Ice	
				-					

District I
1625 N. French Dr., Hobbs, NM \$8240
District II
611 South First, Artesia. NM \$8210
District III
1000 Rio Brazos Road. Aztec, NM \$7410
District IV

(This space for State Use)

APPROVED BY:

APPROVED BY:

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacifeco Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

2040 South Pacheco, Santa Fe, NM 87303	District Office
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔯	4. Generator federated Environmental Services
Verbal Approval Received: Yes No	5. Originating Site - RAB  YARD
2. Management Facility Destination KEY DISPOSAL	6. Transporter Ley
3. Address of Facility Operator 745 CR3500 Aztec NM	8. State NM
7." Location of Material (Street Address or ULSTR) 5978 05 Hwy 64 FARMINGTON, NM 8740	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job.  B. All requests for approval to accept non-exempt wastes must be accompanied by no material is not-nazardous and the Generator's certification of origin. No waste cla approved	ecessary chemical analysis to PROVE the issified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for transp	юп.
WHEN From Hydro shop sun	P
MART OF THE PROPERTY OF THE PR	
Estimated Volume \( \frac{206b/s}{2000} \) Known Volume (to be entered by the ope	erator at the end of the haulcy
SIGNATURE Maste Management Facility Authorized Agent  TITLE: MGR	DATE: <u>3-27-0/</u>
TYPE OR PRINT NAME: MICHAEL TALOVICA TELE	PHONE NO. 505-334-6186

tein

TITLE: Ensyonmental Goodoupst

DATE: <u>3/</u>

DATE: Z



## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

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

.^	
1. Generator Name and Address:	2. Destination Name:
FEDERATED Environmental Services	KEY ENERGY SERVICES - DISPOSAL FACI
Bedford Square, 1314 BEDFord Lue.	# 345 Comby RQ 3500
Baltimore, Aldricand 21208	AZTEC. NOW 57410
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
INFAB	
5928 US Hwy 64	
FARMingtow, DM 87410 Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Water from Hydro 540	~ <
Mars start it gas sto	p samp
	< 20 6615
/ 7	
HARLAND M. Brown  (Print Name)  Federated Edvironmental Servi	representative for:
Federated Edvironmental Servi	ces / INFAB do hereby certify that,
ccording to the Resource Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's July,
988, regulatory determination, the above described v	Waste is: (Check appropriate classification)
EXEMPT oilfield waste × NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic
	by product identification
	a average man banardova vyage defined alice.
d that nothing has been added to the exempt or nor	n-exempt non-nazaroous waste defined above.
or NON-EXEMPT waste the following documentar	tion is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	TCLP W/O HAP
Chain of Custody	
nis waste is in compliance with Regulated Levels of N	laturally Occurring Radioactive Material (NORM) pursuant
20 NMAC 3.1 subpart 1403.C and D.	
ame (Original Signature): Handushi	Branch Company
inc (original orginatoro).	
ame (Original Signature): However the: GEOLOGIST / Project We	the state of the s

## IVIROTECH LABS

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

Client:

Sample ID:

Lab ID#: Sample Matrix: Preservative:

Condition:

Federated Environmental

Hydro Shop Sump

19317 Liquid Cool

Cool and Intact

Project #:

Date Reported:

Date Sampled: Date Received:

Date Analyzed: Chain of Custody: 01007-001

03-01-01

02-27-01 02-27-01

02-28-01

8530

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 6.69

REACTIVITY:

**Negative** 

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

**CORROSIVITY:** 

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

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

Reference:

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

Comments:

INFAB.



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

Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-02-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Extracted:	NA <sup>·</sup>
Preservative:	Cool	Date Analyzed:	03-02-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
, didiliotoi	(9. – /	(9. – /	(3, -/
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.212	0.0001	200
Chloroform	. ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0216	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	0.0030	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 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: INFAB.

 $\left( \right)_{2}$   $\rho$   $\left( \right)_{1}$ 

Misteriem Malters Review



#### EPA METHOD 8040 PHENOLS

•			
Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-12-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-12-01
Condition:	Cool & Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Waste, SW-846, USEPA, July 1992.

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

Waste, SW-846, USEPA, July 1992.

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

Note:

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

Comments:

INFAB.

Analyst L. Que

Misture of Walter



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

Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-12-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-12-01
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	1.22	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.040	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 Re	covery

#### 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:

INFAB.

Analysi C. Oylence

Mister M Walters
Review



# EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Federated Environmental	Project #:	01007-001
Sample ID:	Hydro Shop Sump	Date Reported:	03-01-01
Laboratory Number:	19317	Date Sampled:	02-27-01
Chain of Custody:	8530	Date Received:	02-27-01
Sample Matrix:	Liquid	Date Analyzed:	03-01-01
Preservative:	Cool	Date Extracted:	NA
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	•	Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.019	0.001	5.0
Barium	0.431	0.001	100
Cadmium	0.018	0.001	1.0
Chromium	0.008	0.001	5.0
Lead	0.446	0.001	5.0
Mercury	0.009	0.001	0.2
Selenium	0.004	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

December 1996.

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

Metals, SW-846, USEPA, December 1996.

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

SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Deen L. Oglesen

Mister of Dallers
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:	03-02-01
Laboratory Number:	03-02-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-02-01
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
	(1.0		<u> </u>
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 Accer	otance Criteria	Parameter	Percent Recovery	
	•	Trifluorotoluene	100%	
	÷	Bromofluorobenzene	100%	
References:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW	/-846, USEPA, July 1992.	
	Method 5030, Purge-and	d-Trap, SW-846, USEPA, July 1992.	•	
	Method 8010, Halogena	ited Volatile Organic, SW-846, USEPA	, Sept. 1994.	
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	Sept. 1994.	
Note:	Regulatory Limits based	l on 40 CFR part 261 Subpart C sectio	on 261.24, July 1, 1992.	
Comments:	QA/QC for samples	s 19316 - 19318.		

Allen L. Ogleren

Mustine m Walters Review



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

Client: QA/QC Project #: N/A Sample ID: Matrix Duplicate Date Reported: 03-02-01 **Laboratory Number:** 19316 Date Sampled: N/A Sample Matrix: Water Date Received: N/A **TCLP** Analysis Requested: Date Analyzed: 03-02-01 Condition: N/A Date Extracted: N/A

	Duplicate				
	Sample	Sample Result	Detection		
	Result		Limits	Percent Percent	
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference	
Vinyl Chloride	ND	ND	0.0001	0.0%	
1,1-Dichloroethene	ND	ND	0.0001	0.0%	
2-Butanone (MEK)	0.017	0.017	0.0001	0.0%	
Chloroform	ND	ND	0.0001	0.0%	
Carbon Tetrachloride	ND	ND	0.0001	0.0%	
Benzene	0.036	0.036	0.0001	0.0%	
1,2-Dichloroethane	ND	ND	0.0001	0.0%	
Trichloroethene	ND	ND	0.0003	0.0%	
Tetrachloroethene	ND	ND	0.0005	0.0%	
Chlorobenzene	ND	ND	0.0003	0.0%	
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%	

ND - Parameter not detected at the stated detection limit.

References:

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

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

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

Comments:

QA/QC for samples 19316 - 19318.

Analyst C. Oglewin

Mistani m Walters Review



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

Client: Sample ID: QA/QC Matrix Spike 19316

Project #: N/A Date Reported: 03-02-01

Laboratory Number: Sample Matrix: Analysis Requested:

Condition:

Water **TCLP** N/A

Date Sampled: Date Received:

Date Analyzed:

N/A N/A 03-02-01

N/A

Date Extracted:

SW-846
% Pag

	Spiked			SW-846		
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1.1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0172	0.050	0.0662	0.0001	99%	47-132
Chloroform	. ND	0.050	0.0500	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	0.0361	0.050	0.0856	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0490	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0495	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0495	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

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

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

Comments:

QA/QC for samples 19316 - 19318.



#### EPA METHOD 8040 PHENOLS

#### Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-12-01
Laboratory Number:	03-12-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-12-01
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery		
	2-fluorophenol 2,4,6-tribromophenol	98 % 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 19316 - 19318.

Decen L. Oglessen

Ahristin m Walters
Beview



# EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-12-01
Laboratory Number:	19316	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	03-12-01
	I	Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.130	0.128	0.040	2.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:		Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity Ch Waste, SW-846, USEPA	naracteristic Leaching Procedure Test July 1992.	Methods for Evaluating Solid
	Method 3510, Separatory Waste, SW-846, USEPA	Funnel Liquid-Liquid Extraction, Test July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols, T	est Methods for Evaluating Solid Wast	e, SW-846, USEPÄ, Sept. 1986.
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for samples	19316 - 19318.	

Analyst Cyleura

Mistine m Wasters
Review

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-12-01
Laboratory Number:	03-12-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	03-12-01
•	•	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

### 2-fluorobiphenyl

101%

References:

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

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

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

Note:

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

Comments:

QA/QC for samples 19316 - 19318.

Deur L. Ofencer
Analyst

Pristri m Wallen 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:	03-12-01
Laboratory Number:	19316	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	03-12-01
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)	
r ai ai i i e te i	(1119/2)	(mg/L/	Dilleterioc	(mg/L)	
Pyridine	0.061	0.061	0.0%	0.020	
Hexachloroethane	0.051	0.050	1.0%	0.020	
Nitrobenzene	0.054	0.054	0.0%	0.020	
Hexachlorobutadiene	0.184	0.182	1.1%	0.020	
2,4-Dinitrotoluene	0.030	0.030	0.0%	0.020	
HexachloroBenzene	0.086	0.085	1.8%	0.020	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference

### 8090 Compounds

30%

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

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.

QA/QC for samples 19316 - 19318. Comments:

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

Client:	QA/QC	Project #:	N/A
Sample ID:	03-01-TCM QA/QC	Date Reported:	03-01-01
Laboratory Number:	19316	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	03-01-01
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate	the second of the second of the second	Method	Detection	Sample	Duplicate	%	Acceptance
Conc. (mg/L) Arsenic	Blank ND	Blank ND	0.001	0.012	0.012	0.105 0.0%	0.107 0% <b>-</b> 30%
Barium	ND	ND	0.001	0.050	0.049	2.0%	0% - 30%
Cadmium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%
Lead	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Silver	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%

Spike Cond. (mg/L)	Spike Added	Sampl	e Spiked Sample		Acceptance Range
Arsenic	0.500	0.012	0.512	100.0%	80% - 120%
Barium	0.500	0.050	0.548	99.6%	80% - 120%
Cadmium	0.500	0.001	0.500	99.8%	80% - 120%
Chromium	0.500	0.003	0.503	100.0%	80% - 120%
Lead	0.500	0.013	0.512	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.002	0.502	100.0%	80% - 120%
Silver	0.500	0.006	0.505	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

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

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

SW-846, USEPA, December 1996.

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

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19316 - 19318.

Pale

Analyst

Christin m Walter

Review

# CHAIN OF CUSTODY RECORD

08530

Client / Project Name	l .	Project Location				ANALYSIS /	ANALYSIS / PARAMETERS		
Sampler: HARLAN M. Brown		Client No. 0(007-00(	) 00-	to . siners	<b>₽</b>			Remarks	
Sample No./ Sample Identification Date	Sample	Lab Number	Sample Matrix		<u>احر</u> س/ن				
10.12.20 grand 3t-21.01	01 11:05	19317	Lianip	70	7				
		·							
Relinquished by: (Signature)	$\cap$	0	Date Time Recei	ive By:	Received by: (Signature)	0,5		Date 2/5 / 1/5/	Time //: //
Relinquished by: (Signature)			Recei	ived by:	Received by: (Signature)			1	
Relinquished by: (Signature)			Recei	ived by:	Received by: (Signature)				
			ENVIROTECH INC	3	<u>S</u>		Sam	Sample Receipt	
								<i>\</i>	Z
			5796 U.S. Highway 64 Farmington, New Mexico 87401	hway 6 //exico	34 87401		Received Intact	2	
Annual state of the state of th			(505) 632-0615	0615			Codi - los/Eltro los	- \frac{1}{2}	
						e de l'année	the system and the print of the grant of the second of the	-	

Dietrica J. (505) 393-6161 P. O. 20 1980 Hobbs. NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210

trict III - (505) 334-6178

7 Rio Brazos Road

c, NM 87410.

New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 2040 South Pacheco Street

Santa Fe, New Mexico 87505 (505) 827-713T

Form C-1 Originated 8/

Submit Orig Plus I C to approps District Of

APR 2001

E叫. JN: 01007-001 District IV - (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE Non-Exempt: X 1. RCRA Exempt: L 4. Generator Verbal Approval Received: Yes 5. Originating Site INFAR virotech Soil Remedia. Facility Landfarm #2 Envirotech 2. Management Facility Destination 6. Transporter Eduiro Lech 5796 US Highway 64 Now Haxico Address of Facility Operator Farmington, NM 87401 7. Location of Material (Street Address or ULSTR) 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator: one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Oily dirt from cutting & Burning area, Hill Top Grate RCRA RCI Total Watels Attached MAR 2001 CALCON, DIV cy Known Volume (to be entered by the operator at the end of the haul) -Estimated Volume TITLE. Landfarm Manager DATE: 3.26.01 Waste Management FacilityAuthorized Agent 505-632-0615 Harlan M. Brown TYPE OR PRINT NAME: TELEPHONE NO.

(This space for State Use)

- Tent TITLE: Cecley 15/

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

Rio Brazos Road

APPROVED BY:\_

APPROVED BY:

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

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

Form C-13 Originated 8/8/9

> Submit Origin Plus I Čor to appropria District Offic

c, NM 87410 District IV - (505) 827-7131	(303) 827-7131	Env. JN: 01007-001
REQUEST FOR A	APPROVAL TO ACCEP	Γ SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🗵		4. Generator
Verbal Approval Received: Yes	No 🗵	5. Originating Site INFAB
2. Management Facility Destination Environ Facility	tech Soil Remedia. lity Landfarm #2	6. Transporter Eduiro tech
	Highway 64 ton, NM 87401	8. State Was Hoxico
7. Location of Material (Street Address or ULS)	TR)	592B US HWY GY Farming on DM 87401
9. <u>Circle One</u> :	-	
Generator; one certificate per job.  B. All requests for approval to accept non-	exempt wastes must be acc	ompanied by a certification of waste from the ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
All transporters must certify the wastes delive	red are only those consigne	d for transport.
BRIEF DESCRIPTION OF MATERIAL:		
oily dist from a	utting & Bur	ning area, Hill Top God
Area. RCRA RCI Total Matals A	Haalad	
Estimated Volume cy Known Vo	olume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management FacilityAuthorized Agent Harlan M. Brown		505-632-0615
TYPE OR PRINT NAME: Hallan II. Brown	TEL	EPHONE NO
(This space for State Use)		

TITLE:

TITI F.



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-617

GARY E. JOHNSON GOVERNOR

1. Generator Name and Address:

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

FEDERATED ENVIRONMENTS Savoices Envirotech Soil Remediation Facility

2. Destination Name:

Bedford Square, 1314 Bodford Aug. Landarm #2	
BAITIMORE, Alarchand 21208 Hilltop, New Mexi	Lco
3. Originating Site (name): Location of the Waste	(Street address &/or ULSTR):
5928 US HWY 64	
Farmington WW 87401	·
Attach list of originating sites as appropriate 4. Source and Description of Waste	
Oily Soil @ Cutting & Burning and	rea, Hill Top GAWG
Area.	
·	
Federated Environmental / INFAB	representative for:
(Print Name)	
according to the Resource Conservation and Recovery Act (RCRA) and Environment	do hereby certify that,
1988, regulatory determination, the above described waste is: (Check appropriate	
EXEMPT oilfield waste NON-EXEMPT oilfield waste which analysis or by product identification	is non-hazardous by characteristic
and that nothing has been added to the exempt or non-exempt non-hazardous	waste defined above.
For NON-EXEMPT waste the following documentation is attached (check approximation Other (de X RCRA Hazardous Waste Analysis R CEA RCT _ To tall X Chain of Custody	scription):
This waste is in compliance with Regulated Levels of Naturally Occurring Radio to 20 NMAC 3.1 subpart 1403.C and D.	active Material (NORM) pursuant
Name (Original Signature): Haclan Subjection	
Title: GEOLOGIST / PROJECT ULBER MENTE	

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

Federated Environmental

01007-001

Sample ID:

Hilltop Stains

Lab ID#:

03-01-01

19315

02-27-01

Sample Matrix:

Soil

Date Sampled: Date Received:

Preservative:

Cool

Date Analyzed:

Date Reported:

Project #:

02-27-01 02-28-01

Condition:

Cool and Intact

Chain of Custody:

8529

**Parameter** 

Result

**IGNITABILITY:** 

Negative

**CORROSIVITY:** 

Negative

pH = 6.67

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

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

CORROSIVITY:

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

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

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23.

(i.e. Violent reaction with water, strong base, strong acid, or the generation

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

Reference:

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

Comments:

INFAB.

Christine my Wasten Analyst

em L. Ofena

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### TRACE METAL ANALYSIS

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

	<del></del>	Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/Kg)	(mg/Kg)	(mg/Kg)
Arsenic	0.660	0.002	5.0
Barium	3.94	0.002	100
Cadmium	0.624	0.002	1.0
Chromium	1.64	0.002	5.0
Lead	8.46	0.002	5.0
Mercury	ND	0.002	0.2
Selenium	0.428	0.002	1.0
Silver	0.124	0.002	5.0

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB.

Minter of Waller Review

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

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

Blank & Duplicate		Method		n Sample	<ul> <li>Duplicate</li> </ul>	and the second second second	Acceptance.
Conc. (mg/L) Arsenic	Blank (mg/L) ND	Blank ND	Limit 0.001	0.030	0.030	Diff. 0.0%	Range 0% - 30%
Barium	ND	ND	0.001	0.139	0.137	1.4%	0% - 30%
Cadmium	ND	ND	0.001	0.038	0.039	2.6%	0% - 30%
Chromium	ND	ND	0.001	0.017	0.017	0.0%	0% - 30%
Lead	ND	ND.	0.001	0.266	0.264	0.8%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND.	0.001	0.012	0.012	0.0%	0% - 30%
Silver	ND	ND	0.001	0.031	0.030	3.2%	0% - 30%

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

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19310 - 19315.

Dem L. Gleen Analyst

Christin m Lacter

# CHAIN OF CUSTODY RECORD

08529

Sample No.   Clean No.   Olor	1 =			Project Location					
Client No.   Cli	FREERICES ENU	سلهمورة		INFAB		-	PARAMETERS		
Sample Sample   Lab Number   Sample   2 0 4 2 2 2 3 4 2 2 2 3 4 2 2 3 3 4 2 2 3 3 4 2 2 3 3 4 2 2 3 3 4 2 2 3 3 4 3 4	lampler: HARLMU M. Br.	30		Client No. 010	1	ainers		Remarks	
22.27 10:00 19312		Sample Date	Sample Time	Lab Number	Sample Matrix	stnoO			
2.27 (0:26   9311		2.27.0(	9:55		Lightin	\			
2.27 (0:25   19312   Liaus   1   Liaus   Liaus   1   Liaus   Liaus   1   Liaus   Liaus   1   Liaus   Liaus   1   Liaus   Liaus   1   Liaus   Liaus   1   dh	2.27	00:07		Lightin	_				
2.27 (0:25 ) 193(3		72.2	10:05		Lieuio	7			
2.27 (20:40 1931)		2.27	(0:25	1 9313	Soil	7			
2.27 (20:40 1931)		227	10:30	19314	500(	7			
Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time		2.27	क्रीः ८१	19315	)	7			
Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Date   Date   Time   Date   Date   Time   Date   Da									
Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Received by: (Signature)     Date   Time   Date   Time   Date   Date   Time   Date   Date   Time   Date   Date   Time   Date   Date   Date   Time   Date   Date   Date   Time   Date   Da									
Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Date   Time   Received by: (Signature)   Sample Receipt   Farmington, New Mexico 87401   Cool - Ice/Blue Ice   Coo									
Date   Time   Received by: (Signature)     2.27.0     2.27.0									
Heceived by: (Signature)  Received by: (Signature)  FOVIROTECH INC.  Sample Receipt  5796 U.S. Highway 64  Farmington, New Mexico 87401  (505) 632-0615  Cool - Ice/Blue Ice	linquished by: (Signature,	Jours			Time /0:53	Ned by: (Signature)		ļ	Time
ENVIROTECHINC.  Sample Receipt  5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615  Cool - Ice/Blue Ice	linquished by: (Signature,	(				ived by: (Signature)			
Sample Receipt  Received Intact  Cool - Ice/Blue Ice	olinquished by: (Signature,				Recei	ived by: (Signature)			
Received Intact  Cool - Ice/Blue Ice					<b>NVIROTE</b>	CHINC.	Sample	e Receipt	
					1110110025				
					5/96 U.S. High Farmington, New IV	nway 64 /exico 87401	Received Intact	7	
					(505) 632-(	0615	Cool - Ice/Blue Ice		

	e ey e e		No. of Section 1
Netrict II - (505) 748-1283 II S. First Iresis, NM 88210	New Mexico and Natural Resource Conservation Division 40 South Pacheco Street ta Fe, New Mexico 87505 (505) 827-7131	ces Department on	Form Conginated  Submit Of Plus It to appropriate District
REQUEST FOR AP	PROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: Non-Exempt:	_	4. Generator	<b>€</b> ≥ 0 6 × 0
Verbal Approval Received: Yes	No-	5. Originating Site Tuti	48
2. Management Facility Destination Envirote Facili	ch Soil Remedia. ty Landfarm #2	6. Transporter Fuviro	
3. Address of Facility Operator 5796 US H Farming to	ighway 64 n, NM 87401	8. State Daw Heroi 5928 U.S. Hur64	i co
7. Location of Material (Street Address or ULSTR		592B US. Hwy64 Farmington Du	
9. Circle One:		J	
Generator; one certificate per job.  B. All requests for approval to accept non-exe PROVE the material is not-hazardous and to listing or testing will be approved.  All transporters must certify the wastes delivered BRIEF DESCRIPTION OF MATERIAL:  Oily aint from a trade of the material of the material is not-hazardous and to listing or testing will be approved.  All transporters must certify the wastes delivered brings are considered in the material is not-hazardous and to listing or testing will be approved.  All transporters must certify the wastes delivered brings are considered in the material is not-hazardous and to listing or testing will be approved.  All transporters must certify the wastes delivered brings are considered in the material is not-hazardous and to listing or testing will be approved.  All transporters must certify the wastes delivered brings are considered in the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the material is not-hazardous and the listing of the	he Generator's certifications are only those consigned	n of origin. No waste classified haz	ardous by
SIGNATURE: Handow of Facility August Agents	me (to be entered by the ope		
(This space for State Use)  APPROVED BY: Levy To inf		EPHONE NO	7/01
APPHOVED BY:	· IIILE:	UAIE: 3/	4-51

11/1

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

Rio Brazos Road

APPROVED BY:

c, NM 87410 مدر

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

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

Form C-1 Originated 8/6

> Submit Orig Plus I C to appropr District Of

DATE:

<u>District IV</u> - (505) 827-7131	Env. JN: 0(007-00)
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator
Verbal Approval Received: Yes 🔲 No 💆	5. Originating Site Tutos
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Favirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Daw Meroico
7. Location of Material (Street Address or ULSTR)	5928 U.S. Hwr64 Farmington Dur,
9. Circle One:	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accommon PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	mpanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL:  Oily sint from clean up of t	tyster Hydraulic leak
Total Matals Awaresis - Affor	had
Estimated Volume — cy Known Volume (to be entered by the oper	ator at the end of the haul) ————————————————————————————————————
SIGNATURE: How Construction of the Management Facility Authorized Agent  Waste Management Facility Authorized Agent  World Proving Management Facility Authorized Agent	DATE
TYPE OR PRINT NAME: Harlan M. Brown TELE	PHONE NO
(This engre for State Use)	

TITLE:



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
FEDERATES EDUlronmental Ja	ev. Envirotech Soil Remediation Facility
Bedford Square, 1314 Bedford AOE.	Landarm #2
Baltimore MARTLAND 21208	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
INFAB YARD	
5928 U.S. Hwy 64	
FARMINGTON NUL.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Dily dirt chancel	up @ par /zing areas from Hystor
leales.	
1, HAVELUN M. Brown (Print Name)	representative for:
(Print Name)	Auto 10
Fedorated Environmental	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above describe	d waste is: (Check appropriate classification)
////////	EMPT oilfield waste which is non-hazardous by characteristic
analysis	or by product identification
and that nothing has been added to the exempt or i	non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following document	ntation is attached (check appropriate items):
MSDS Information RCRA Hazardous Waste Analysis	X Other (description): Total beatals
Chain of Custody	
	AND THE COURSE OF THE STATE OF
This waste is in compliance with Regulated Levels o	f Naturally Occurring Radioactive Material (NORM) pursuant
	•
to 20 NMAC 3.1 subpart 1403.C and D.	
Name (Original Signature):	Brown
to 20 NMAC 3.1 subpart 1403.C and D.  Name (Original Signature):	Brown
to 20 NMAC 3.1 subpart 1403.C and D.	Blow

### SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client:

Sample ID:

Lab ID#:

Sample Matrix:

Preservative:

Condition:

Federated Environmental

Oily Soil

19234 Soil

Cool

Cool and Intact

Project #:

Date Reported:

Date Sampled: Date Received:

Date Analyzed:

Chain of Custody:

01007-001

02-26-01

02-22-01 02-22-01

02-23-01 8514

**Parameter** 

Result

**IGNITABILITY:** 

**Negative** 

**CORROSIVITY:** 

Negative

pH = 7.07

**REACTIVITY:** 

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

**IGNITABILITY:** 

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

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

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

Reference:

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

Comments:

**INFAB Yard** 

13 drum composite.

Muster of Wallen Analyst

- L. ajene

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### TRACE METAL ANALYSIS

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

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

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

INFAB Yard

13 drum composite.

Dece I. Gleen

Review

### PRACTICAL SOLUTIONS FOR A BETTER TOWORROW

# TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

<b>.</b>	0.1/00	Designat #	NI/A
Client:	QA/QC	Project #:	N/A
Sample ID:	02-26-TM QA/QC	Date Reported:	02-26-01
Laboratory Number:	19234	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	02-26-01
Condition:	N/A .	Date Digested:	02-26-01

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detectio Llmit		Duplicat	e % Diff.	Acceptance Range
Arsenic	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Cadmium	ND:	ND	0.002	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.002	ND ·	ND	0.0%	0% - 30%
Selenium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.002	ND	ND ·	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added:	Samp		Percent ;	Acceptance Range
Arsenic	1.00	ND	0.996	99.6%	80% - 120%
Barium	1.00	ND	0.996	99.6%	80% - 120%
Cadmium	1.00	ND	0.998	99.8%	80% - 120%
Chromium	1.00	ND	0.994	99.4%	80% - 120%
Lead	1.00	ND	0.996	99.6%	80% - 120%
Mercury	0.100	ND	0.098	98.0%	80% - 120%
Selenium	1.00	ND	0.994	99.4%	80% - 120%
Silver	1.00	ND	0.998	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, December 1996.

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

Spectorscopy, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample 19234.

Analyst

Aristain Wallen

# CHAIN OF CUSTODY RECORD

08514

Slient / Project Name Few Example A Ulronmondal Tolk	Noirou	markan	Project Location	- Port		A	ANALYSIS / PARAMETERS	RAMETERS		
Sampler: Havlowing Brown	Brow	3	Client No.	000	ainers	2027			Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Conta PCI RCI	(0) (4)				
ી. કિંગ્યું કુમાં કુ કુમાં કુમાં ક	10.22.2	۵٪۵	he261	); %	7			13 dr	drum Composit	2)/500
						:				
Relinquished by: (Signature)	Story	1	(1	Date Time Receiv	Received by: (Signature)	()		-		Time
Relinquished by: (Signature)	(e)				Received by: (Signature)	(p)	}		11 20 27.7	0) ///
Relinquished by: (Signature)	(e)			Recei	Received by: (Signature)	(e)				
				<b>ENVIROTECH INC</b>	H H H	1		Sample	Sample Receipt	
				7711 011 0022					>	N/A
				5796 U.S. nignway 64 Farmington, New Mexico 87401	nway 64 fexico 87401			Received Intact	7	
				(505) 632-0615	0615			Cool - Ice/Blue Ice	<u></u>	

District II - (505) 393-6161 P. Q. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pi-trict III - (505) 334-6178 Q Rio Brazos Road Ac, NM 87410 District IY - (505) 827-7131	Submit On
REQUEST FOR APPROVAL TO ACCEPT	
1. ACRA Exempt: Non-Exempt: O'27.01	Federal ed Esos வாக்கள் 4. Generator エルトール・
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site エムチルの
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Euroleotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Harico
7. Location of Material (Street Address or ULSTR)	592B U.S. How 64. Formington, NIM 87401
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accommon Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> </ul>	mpanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Estimated Volume   Cy Known Volume (to be entered by the open signature:  Waste Management Facility Authorized Agent Marlan M. Brown  TELE	MAR 2001  MAR 20
TYPE OR PRINT NAME: TELE	EPHONE NO.

APPROVED BY: Derry terry TITLE: Geolog 181 DATE: 3/27/0/

(This space for State Use)



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Name (Original Signature): Hadawar Rouse

Title: Goologist - Project Houges

7.77.01

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6176

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

CERTIFICATE OF WASTE STATUS
Felorated Existion marked Associates, Tax
BEDFORD Square, 1314 Backers Avance. Baltonore, Maryland 21208 2. Destination Name: 1. Generator Name and Address: INFAB Envirotech Soil Remediation Facility 5928 45 Hwy 64 Landarm #2 Farmington, Nac. 87401 Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR): 3. Originating Site (name): Infab SHOP & Yard. Attach list of originating sites as appropriate 4. Source and Description of Waste Sludge generated during cleaning & referbisking oilfold production againpment including; tooks, dalugs, separators HURLHAD W. Brown (Print Name) Federated ENVironmental Associates INC do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characteristic X EXEMPT oilfield waste analysis or by product identification and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above. For NON-EXEMPT waste the following documentation is attached (check appropriate items): Korm's Anthonysis MSDS Information X RCRA Hazardous Waste Analysis RCRA & Matals Chain of Custody This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Drums From INFAB YARD

Sludge generated during cleaning & refurbishing oil Field production equipment welleding tanks, dehydrotors, superetor and other production equipment.

### NORM SURVEY DATA SHEET

Facility/location: Pesco Plant	Date: 2-27-01
Meter Model: DOSIMETER 3007A Serial No	o: 9808-238
Detector Model: DOSIMETER 3012 Serial No	o: 201-887-7100
Calibration Date: 4-5-99  Battery Check: (火)  Background Radiation Level: _ + ○ 5 _ mR/hr	
Description of material surveyed:  Solid Waste Th 5	5 gAl. down container
Exempt WASK	· · · · · · · · · · · · · · · · · · ·
Item / Materia	ıl Surveyed:
Waste Material: 55 approx. gals  Equipment:  Manufacturer:	mR/hr:
Serial No:	
Description:	
Job No:	
Comments:	
Survey Conducted by:  On Miller  (Print Name)  (Signature)	

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

(This space for State Use)

APPROVED BY:\_

# New Mexico

Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-1 Originated 8/8

> Submit Orig Plus 1 C to appropr District Of

Rio Brazos Road (505) 827-7131 c, NM 87410 strict IV - (505) 827-7131	Env. JN: 0(067-00)
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: O.27.01	Felonaled Environme. 4. Generator Infel.
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Turks
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eavirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Now Huxico
7. Location of Material (Street Address or ULSTR)	5928 U.S. How 64. Farmington, NM 87401
9. Circle One:	
<ul> <li>All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job.</li> <li>All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:  Studge generated during clooning to production equipment including touk.  Horms Awarrsis 47 Thether.	RefurbisHiNG oilfeelp s, dehys & separators
	9
Estimated Volume 5 cy Known Volume (to be entered by the ope	erator at the end of the haul) ————————————————————————————————————
SIGNATURE: Haclas Brown  Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown  TEL	DATE: 3.26.0(  EPHONE NO. 505-632-0615

TITLE:

DATE:



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Title: Goologist - Project Houges

2.22.01

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fex (505)334-617

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

S928 US HWY 64 Farmington, New. 87401	2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico
3. Originating Site (name): エルfeb Stop を Yeard,	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate  5. Source and Description of Waste  Sludge gamerated dur  production again pure	tug cleaning & referbisking oilfocks t including; touks, dalugs, saparators
Federaled Editorum and Recording to the Resource Conservation and Reso	Associates Tいこ do hereby certify tha lecovery Act (RCRA) and Environmental Protection Agency's Jul
anal	I-EXEMPT oilfield waste which is non-hazardous by characteristic ysis or by product identification
NON-EXEMPT waste the following docu	inentation is attached (check appropriate items):  X Other (description): KH assistable of Provision Representation of the provision of the pr

Drums from INEAB YARD

Sludge generated during cleaning & refurbishing oil field

Production equipment welling tanks, behydrotors, separator

and other production equipment.

### NORM SURVEY DATA SHEET

Facility / location:	Pesco	Plant	Date:	2-22-0	(
Meter Model: DOSIN	ÆTER 3007A	Serial No: 9	9808-238		
Detector Model: DOS	SIMETER 3012	Serial No: 2	201-887-7100		
Calibration Date: 4-5-Battery Check: ()					
Background Radiation	· · · · · · · · · · · · · · · · · · ·				·
Description of materia	hsurveyed:	- m 55	9A1.	down co	ntainee
F	xenot W	ASÍR			
_	xempt W Item	/ Material	Surveyed:	:	
Waste Material: 55 Equipment: Manufacturer:	approx. gals		mR/hr:	1 · 1	
Serial No:	· · · · · · · · · · · · · · · · · · ·				
Description:	<u></u>	·	_		
Job No:		<del></del>			
Comments:		·-			
Survey Conducted by:	(Print Name  (On M)  (Signature)	liller Llig			

		Emergeno	cy Contact Telepho	one Nur	nber					
À	UNIFORM HAZARDOUS	1. Generator's U	US EPA ID No.		/lanifest	2. Pag	ae 1 Informati	on in the	shaded are	age is
	WASTE MANIFEST	. ]	6. O. O. 9. 6. B	Docu	ument No.	t of	innonnauc		ederal law.	
4	3. Generator's Name and Mailing Address		<u> </u>				ate Manifest Docum	nent Nurr	nber	· 200
1	Pederated Environmental Services									£ Bu
	Bedford Sq., 1914 Bedford A	Bedford Sq., 1314 Bedford Ave.  B. State Generator's ID							<u> अ</u>	d e St
	BaltomermoneMD 21208	*A						arter, the	werten.	Li dinuji.
	5. Transporter 1 Company Name	4	6. US EPA ID				ate Transporter's ID		64.3	i <del>gili lik tipa ya sa</del> Parasa ili sa
	Rovirosolve L.L.C.		A 2 D 9 8 2	4. 8. 4	1. 5. 7. 2				7623-7	/322
	7. Transporter 2 Company Name		8. US EPA ID		3.1		ate Transporter's ID	· · · · · · · · · · · · · · · · · · ·	Territorial States	<u> इंटरें प्रसाह</u>
		•	1			,	ansporter's Phone			<del>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</del>
	Designated Facility Name and Site Address	. ,	10. US EPA ID	Number	<del></del>	- 1 1 1 1 1	ate Facility's ID	S. W. S.	· (2) (3) (4)	
	Envirosolve L.L.C.				•		OKD98		068	
	2120 Southwest Blvd.		40.5			H. Far	the second second reserve	Contraction 1 Tel	Add to suppose the second	<u> </u>
	Tulsa, OK 74107		10 K D 9 8 7	084	068		cility's Phone (388)	340-	9475	AND MANY
	11. US DOT Description (Including Proper Shipping	Name Hazard Cl	loca and ID Number)	<del></del>	12. Cont	<u> - Stanisk</u>	13.	14.	T व्यक्त संक्	75eg
		Name, manage	155, and to Humber,	J		1 50	Total	Unit	K	(47 Teld
	HM		The second second	<u> </u>	No.	Type	Quantity	Wt/Vol	D001	te No.
	a X RQ Waste Paint Related	Material,	3, UNIZOJ,	,	1	1 )	1		F005	2003 711 115 1111
	PGII (D001)			. 1	611	n M	4420	P	* WE	1
ا ا					<u> </u>	-	N. K. A.	<u> </u>	D001	**************************************
Ġ	b. X RQ Waste Paint Related	Material,	3, UNI263,	1	1		f		F005	BUU
Ň	PGII (D001)			- · J	00.7	n M	1 a com	P	E War	
ĖĮ	the other was a support to	and the state of t	Section 19	. *	~ /		2.800	45 14 h	DATE:	1.34
À	c X Waste Aerosols, 2.2, UR	#1950 (LAB	) PACK)	· 56 i	43		To the second	1 45. 41 - 11.	DOOL	
5	1 1 1			. 1	1	2 84	1. 100	P	Fig. 18	- 52
á			<u> </u>		001	LF EX	1.00	<u> </u>	18	
Ü	d. Wwaste Corrosive Liquid	Basic, J	inorganic,		in in I				D002	
H	N.O.S. (Ammonium Hydro	mide), 8,	UN3266, PGII	J	001		1	p		Ware Co
H	J. Additional Descriptions for Materials Listed Above	en Maria de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión La compansión de la compa		MARY	F-30	DF	30	<b>*</b>	Party.	Francisco de la constante de l
	11b. 4-01096-003-2. paint/: 11c. 4-01096-902-3. aeroso. 11d. 4-01096-008-4. BRG#15: 15. Special Handling Instructions and Additional Info Emergency Contact# 1-877-9: Hamiling and disposition po									
11	Ballitting and and	<i>- ਜ਼ਿੰਗਰ</i> ਾਵਾਦਾ ਦਾ 	- 1						2.5	1
H	16. GENERATOR'S CERTIFICATION: I hereby declar	re that the contents	s of this consignment are fu	illy and acc	curately desc	cribed ab	ove by proper shipr	ning namr	and are c	lassified,
H	packed, marked, and labeled, and are in all respects									
	If I am a large quantity generator, I certify that I have									
	practicable and that I have selected the practicable in and the environment; OR, if I am a small quantity go									
	available to me and that I can afford.	alorator,		//mcc,	1510 9			/ Illian a	ineur met	U trice,
IJ	Printed/Typed Name	. #	Signature	) among	in Ry	·	· ·		fonth Day	
/]	f children and a second		742/X	المحاصدة المنافق	H KILL	- Care		۲	SSOR	10.1
Ţ	17. Transporter 1 Acknowledgement of Receipt of Ma	aterials			, 9.X	lang.				
į	Printed/Typed Name		Signature	5.87	1	The service of the se		М	fonth Day	y Year
3	1 ATIMI KLOPA	2. TT.	e 1//2	Marie Marie	571			1	.   .	1 .
5	18. Transporter 2 Acknowledgement of Receipt of M	aterials	Jan Jan Barriston	<del></del>			• • •			-
}	Printed/Typed Name		Signature		•	<del></del>	,		fonth Day	y Year
Ė	I miles Types Tames							i	•   •	1
+	19. Discrepancy Indication Space									4-
	19. Discrepancy indication space	- es	24							ŀ
F	f in the second of the second	199								
A C	l de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	** 47 **	•							1
ı		<u> </u>	<del></del>		<del></del>				<u> </u>	
ī	20. Facility Owner or Operator: Certification of receip	pt of hazardous ma	aterials covered by this ma	inifest exce	ept as noted	d in Item	19.		<del>-</del> · .	. Jak
,	1-1-6									
1	Printed/Typed Name	4 x 2 x 2 x 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3	Signature	<del>-</del>				M	Month Day	y Year
- 1	, and the second of the second	-75f	1					ſ		1.7

				EMERGENCY	CONTACT T	ELEPHONE	NUMBE	R				
1		U	NIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) N M P	21. Generator's U		Doct	lanifest ument No.	22. Page	Information required to	on in the s by Federa	shadedareas al law.	is not
	P)	ed:	erator's Name erated Environmental Se Ford Sq., 1314 Bedford	rvices					unifest Docum	ent Nümb	oer .	
			timora, MD 21208 410)653-24 nsporterCompany Name	34	25. US EPA ID Nu	mher		KE Chain To	ansporter's ID			
			irosolve L.L.C.	•	. AZD98	2484578		1.33%	rter's Phone		0) 623-7	<del>3</del> 22
	26.	Trar	nsporterCompany Name		27. US EPA ID Nu	mber		B 1. 1.3%	ansporter's ID	Barbara to a to		
	_		DOT Description (I. A. II. D. C. C. A. II.			• • • •	29. Cont		30.	31.	R.	
	ļ	НМ	DOT Description (Including Proper Shipping Nat			5 G	No	Туре	Total Quantity	Unit Wt/Vol	Waste N	lo. × 🧎
	a.	X,	Waste Flammable Liqui PGII (LAB PACK)	ds, N.C.S.	., J. UNIY	93,				300	DOOL	
	<u>_</u>	47.00	br nana ar non c.11		ralid t dal		001	DF	-50	P		
	b.	X	Non RCRA/Non DOT Soli	a (paint :	sorra a dei	oris)						
	_		30,	· .			003	- ма	- 700	G		
	C.				,		, .					
GE	d.											
N E R	<u> </u>										Arry & Comme	
A T,	e.								•			
'R 	f.	$\vdash$				,	,					
						İ	-					
	g.									·		
				······································						-		
	n.											
	i.									,		
			· · · · · · · · · · · · · · · · · · ·									4 4 .
	2	BB	ional Descriptions for Materials Listed Above 4-01096-001-2. LP#1,	1X5G. ERG	¥128.		4	1 1 1 1 1 1	Codes for Wa	stes Liste	ed Above	
	2	8b	. 4-01096-909-13. rags,	booms, al	ba <b>orbe</b> nt c	ontaminal	ced w/r	arine	oil.	Tipo si s		# 13 m
												Š.
	32.	Spe	cial Handling Instructions and Additional Info	ormation							<u> </u>	
V	E	me. lan	rgency Contact#1-877-92 dling and disposition p	27-8311 per 40 CFR	261.5 CES	QG accum	ılatio	13 ,			· .	
T R			nsporterIAcknowledgement of Rece	eipt of Materials		_					Date	
A N S		Print	ted/Typed Name	-	Signature		•				Month Day	Year
Ý O R			sporter Acknowledgement of Rece	eipt of Materials							Date	
RANSPORTER		Print	ted/Typed Name		Signature	- 2		•	· ·	· '	Month Day	Year
F	35. ا	Disc	repancy Indication Space			<del> </del>						
AC-L-												
- - - - - - - - -			>	<del></del>	<u>.</u>							
	2 (2)										-66 TO 15 TO	W. 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

1		UNIFORM HAZARDOUS WASTE MANIFEST	21. Generator's US EPA ID No.	Manifest Document No.	22. Pa	ge Informatic required I	on in the s	shaded areas is no al law.	ot
		(Continuation Sheet) N N T	360096816.05	021.	]				
	1	3. Generator's Name	*		L. Stat	te Manifest Docume	ent Numb	oer 190	
	F	Federated Environmental Se	rvices						
		Bedford Sq., 1314 Bedford: Baltimore, MD 21208	Ave.		M. Sta	ite Generator's ID			
Ì	<u> </u>	LATO 653-24	134						
	1	1. TransporterCompany Name	25. US EPA ID Number		11.250.00	te Transporter's ID	500		
		Envirosolve L.L.C.	32D98248457	<u>8</u>		insporter's Phone	CANADA FALLEN	0) 523-732:	2
	26.	6. TransporterCompany Name	27. US EPA ID Number I		20.00	te Transporter's ID			
-	-			29 Con	7 May 10 Car.	nsporter's Phone	All there	Page 16	
	28	3. US DOT Description (Including Proper Shipping Nar	me, Hazard Class, and ID Number)	29. Cont	1	30. Total	31. Unit	R. Wasis No.	
	ļ	HM	<u> </u>	No	Туре	Quantity	Wt/Vol	Control of the Contro	
	a.		ida, N.O.S., 3, UN1993,		1 . 1	<i>(</i>	1	DOOL	
	ĺ	PGII (LAB PACK)		air	n F	1 - 27	P		
	-	The same and the same said	Lappardick & laborated at the state of the	Loty of	-		<del>  -</del>	Paragraphy Construction	
	b.	X   Non RCRA/Non DOT Soli	id (paint solid & debris)			. !			
			•	100	C M	- 700	G		
	c.	+		The second second	1		-		WHY.
	٠.				1 1	. 1		Girls Training	
				Ì		,· 1			
<u>ا</u>	d.				<del>                                     </del>		<del></del>	Care of the contract of the co	
E					.		1	PERSONAL PROPERTY.	藏
Ĕ				1	1	,	1 /		
GENERATO	e.								和
Ţ	1			!		1	1 1		
Ř	[ · _ ˈ				1	. 1	1 . 1	r de la la la la la la la la la la la la la	
1	f.								
					1.	1	1		
1			·		1				
	g.			!					
	1		·			1	1		
	h.				Ī [		1		
	1 '	<b>1</b>				. )	i P		
	<u></u> '				<del></del>				
	i.		•		1	1			
	<b>'</b>	1				ļ	i P		
	- Table 1	· · · · · · · · · · · · · · · · · · ·		**************************************	- L. 0 30 X 12 12 12		Lancie Na Coppe		
	1	Additional Descriptions for Materials Listed Above 20a. 4-01096-001-2. 1.P#1	IX5G, ENGITZU.			iling Codes for Was	stes Lister	d Above	
	Ã,	205. 4-01096-909-13. rags,	booms, absorbent contami	nated w/w	arin	e oil.			
	<u> </u>	The state of the s		· \$74224475	<u>Property</u>	<u> </u>	<u>erwy</u>	Barry Complex you	18 ch
	3∠. I	. Special Handling Instructions and Additional Info	rmation						
	P	Rmergency Contact#1-877-92	27-8311						l
	B	landling and disposition g	per 40 CFR 261.5 CESQO acco	umulation	19.				
<b>V</b>	į						•		
Ţ	33.	. Transporter Acknowledgement of Recei	aint of Materials			<del></del>		Date	$\dashv$
R		Printed/Typed Name	Signature				1	Month Day Yea	ar
NS	í		·				l	1.1.	
P	34.	. Transporter Acknowledgement of Recei	aint of Materials					Date	
Ř		Printed/Typed Name	Signature			· .	1		ear
TRANSPORTER	i						* 1	. 1 . 1 .	.
	35.	Discrepancy Indication Space		***					$\neg$
FAC									ı

**EMERGENCY CONTACT TELEPHONE NUMBER** 

	ess period son de on descente de	and the state of t	Emergency	y Contact Teleph	hone Nur	nber					
		NIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US	S EPA ID No. 5- 0- 0- 9- 6- 8 1	Docu Docu	anifest Iment No.	2. Pag	- Inioinatio		shaded are deral law.	as is
1	3. Generate Pedera Bedfor	or's Name and Mailing Address Ated Environmental Sard Sq., 1314 Bedford BornoneMD 21208	arvices Ave.				A. Sta	ate Manifest Docum	ent Num	iber:	
		orter 1 Company Name			ID Number		10.00	ite Transporter's ID	歌 建催化剂的 海绵		
		onolve L.L.C.	·	A 2 D 9 8 2		5. 7. 8	Sec. 35 - 3 - 3 - 3 - 5 - 5		Christian Color	1623-1	322
	7. Itanspu	rter 2 Company Name		8. US EPA I	ID Number		2	ite Transporter's ID nsporter's Phone	3 42 5 3 255		
	9. Designa	ted Facility Name and Site Address	,	10. US EPA I	ID Number		213 7 34 5	ite Facility's ID			
	2120 5	osolve L.L.C. Southwest Blvd. , OK 74107		O K D 9 8 7	7094	0 6 8	H. Fac	OKO98 (B88)	49	See The state of the Control of	
	11. US DO	T Description (Including Proper Shippin	ng Name, Hazard Clas	s, and ID Number)		12. Conta	ainers Type	13. Total Quantity	14. Unit	i Wasti	s No
	a. 🗶 🙉	Q Waste Paint Related SII (D001)	d Material,	3, UN1263,				. 44.7.0		D001 F005	
GENER	P	Q Waste Paint Relate SII (D001)				00.7	M. O	.2.80.0	P	DU01 F005	POO3
R A T O R	c. X &	asts Aerosols, 2.2,	JN1950 (IAB	FACK)	****	<i>CO1</i>	D M	-1.00	P	DOUL	
	d. X W	aste Corrosive Liqui .O.S. (Ammonium Hydr	d, Basic, In oxide), 8, U	organic, M3266, PGII	plank.	001	D.F	30	P	Supt	
	11b. 11c. 11d.	al Descriptions for Materials Listed Above 4-01096-003-1. paint 4-01096-003-2. paint 4-01096-003-2. paint 4-01096-902-3. aeros 4-01096-006-4. ERG#1  Handling Instructions and Additional Intercept Contact# 1-877-1ng and disposition	/solvent was ols.ERGV 54.//5/ nformation	1te >30¢ ±1.	idge , &			dling Codés for Wai		G Above	
	packed, i If I am a practical and the	ATOR'S CERTIFICATION: I hereby dec marked, and labeled, and are in all respec a large quantity generator. I certify that I in ble and that I have selected the practicable environment; OR, if I am a small quantity e to me and that I can afford.	cts in proper condition for have a program in place le method of treatment, s	or transport by highway ac to reduce the volume ar storage, or disposal curre	ccording to app nd toxicity of vently available	plicable inter waste gener to me which	mational rated to the minimiz	and national governing and national governing the degree I have degreed the present and f	mental reg termined future thre	gulations. to be econo eat to huma	omically n health
V	Printed/	Typed Name  RRCAN M BROW	ww	Signature	25	4 24	9-4: ( Jan	· · · · · · · · · · · · · · · · · · ·	Mo S	onth Day	Year
Ţ		orter 1 Acknowledgement of Receipt of	Materials			1	7.14.		<del></del>		
A S	Printed/	Typed Name	is The	Signature	ing paga Mangalan Sanggar	17	co-		Mo I	onth Day	Year
POR	18. Transpo	orter 2 Acknowledgement of Receipt of	Materials			American de la companya della companya de la companya de la companya della compan		·			
-RAZSPOR-ER	Printed/	Typed Name		Signature					Мо	onth Day	Year
FACI	19. Discrepa	ancy Indication Space	A STATE OF THE STA			_					
-	20. Facility (	Owner or Operator: Certification of rec	eipt of hazardous mate	erials covered by this m	anifest excer	pt as noted	in Item	19.			
Y	Printed/	Typed Name		Signature					Mc I	onth Day	Year

DRIVER: PLEASE SIGN HERE

Survotech

SAN JUAN COUNTY LANDFILL COUNTY ROAD 3140 #78 101 SPRUCE STREET (mail) FARMINGTON, NM 87401-0000 TICKET NBR

Page: Øi of Øi

0522365

ORIGINAL MANUAL

and "					11111463131
HAULER NAME	TRUCK #	OPERATOR	TIME IN	TIME OUT	DATE
· · · · · · · · · · · · · · · · · · ·					. " "
CASH CUSTOMERS	XXX	MARY	3:55PM	3:55PM	2/22/2001

CASH CUSTOMERS

FARMINGTON, NM 00000-0000

SOURCES

OTHER INFORMATION

J# 0100 7001

wind Lobarabic Jose Ml SORUDE ON

COMMERCIAL FARMINGTON

0000027

# WASTE MANAGEMENT

MATERIAL CODE/DESCRIPTION	QUANTITY	MEASURE	RATE	AMOUNT
910 -LOOSE YARDAGE SAN JUAN COUNTY TAX	6. 00	CU YDS	\$3.500	\$21.00 \$1.21
TOTAL AMOUNT			·	\$22.21
	pd cash			•

### DRIVER: PLEASE SIGN HERE

Enwrotech

OTHER INFORMATION

SAN JUAN COUNTY LANDFILL COUNTY ROAD 3140 #78 101 SPRUCE STREET (mail) TARMINGTON, NM 87401-0000 TICKET NBR

Page: 01 of 01

Ø526421

DRIGINAL

J						MHNUHL
	HAULER NAME	TRUCK #	OPERATOR	TIME IN	TIME OUT	DATE
						!
CASH CU	STOMERS	XXX	MARY_	12:38PM	12:38PM	3/21/2001

CASH CUSTOMERS

PARMINGTON, NM 00000-0000

6b # 1007-001

COMMERCIAL FARMINGTON

RODOWOZ7

CELL GRID: SJLF

SOURCES

MATERIAL CODE/DESCRIPTION	QUANTITY	MEASURE	RATE	AMOUNT
910 -LOOSE YARDAGE SAN JUAN COUNTY TAX	2.00	CU YDS	\$3.500	\$7.00 \$0.40
TOTAL AMOUNT				\$7.40
	please	4		·

DRIVER: PLEASE SIGN HERE

SAN JUAN COUNTY LANDFILL COUNTY ROAD 3140 #78 101 SPRUCE STREET (mail) FARMINGTON, NM 87401-0000

Page: 01 of 01

0526421

TICKET NBR

DRIGINAL

MANUAL

HAULER NAME	TRUCK #	OPERATOR	TIME IN	TIME OUT	DATE
CASH CUSTOMERS	XXX	MARY	12:38PM	12:38PM	3/21/2001

CASH CUSTOMERS

FARMINGTON, NM 00000-0000

Sab # 1007-001

		$N \in \mathbb{Z}$	1/I	SOURCES	OTHER INFORMATION
NO	SOURCE	Dan	la la		COMMERCIAL FARMINGTON 0000027
					te managevente.

MATERIAL CODE/DESCRIPTION	QUANTITY	MEASURE	RATE	AMOUNT
910 -LOOSE YARDAGE BAN JUAN COUNTY TAX	2.00	CU YDS	\$3.500	\$7.00 \$6.40
TOTAL AMOUNT				\$7.40
	Icas	4		
	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		



# **MESA**

# RECYCLING MANIFEST / RECEIPT

86481

# **ENVIRONMENTAL**

A DIVISIO	N OF MESA OIL , INC.			
DATE 4/11/01	West Meericole, into	SERVICE CALL #	22431	2
		SERVICE CALL#	·	
GENERATOR Endead Ende	ENTAL ASSOCIATES I	- # J <sup>es</sup>		1
•••		<u> </u>	Contact	
Pickup Address 5928 U5 Huy	64		Phone #	
cityFArmington_		StateAJ M (	Zip	740/
Mailing Address ENVIROTECH J	NE 5796 US Hwy 64	!	•	
city FARMINGTON	·	State NM		7401
RECYCLING SERVICE		Price / Unit	Quantity	Total
USED OIL REMOVAL		00/91/	87	0
OILY WATER REMOVAL			٠.	2.1
USED ANTIFREEZE REMOVAL				
USED OIL FILTER REMOVAL				
FREIGHT				<del>-</del> 05
SPECIAL INSTRUCTIONS			SALES TAX	- X-/
			OTAL DUE   MESA OIL.	sM/C
	FORM OF PAYMENT			
PAID CASH:	CREDIT APP.#	MC / VISA		:
PAID CHECK:	APPROVED BY	P.O.#		•
GENERATORS CERTIFICATION: Tr with PCB's or hazardous waste identified in 261.4. I acknowledge the accuracy of the to follow with terms of NET 30 DAYS.	40 CFR Part 261. Used oil filters meet to be charged to be charged	the exclusion requi on account I unde	rements of 40 rstand that ar	OCFR Part invoice will
Printed / Typed Name	A Handon The Both	The way a second second	6/1	1101
Printed / Typed Name	Signature		Date	•
TRANS	Porter, Storer and Recyc	CLER		<u>-i</u>
MESA OIL, INC PLANT	Mailing Address:			1 7:
Belen, NM   EPA# NMD 0000096024	Mesa Oil, Inc.			
TEXAS TWC ID# 40849	7239 Bradburn Bivd.	il er	IN CASE (	11 17
MECA OU INC. DI ANT	Denver, CO 80030	1111	PILL CONT. IESA OIL, I	0 14
MESA OIL, INC PLANT Golden, CO	(303) 426-4777	Pr D	800-USED	11 11
EPA# COD 983772955				
TRANSPORTER ACKNOWLEDGMENT OF	RECEIPT OF MATERIALS:	<u> </u>		<u>-</u>
I certify materials have been tested and are	below 1,000 PPM halogens.		EMENT - MAXIMUM L SED PETROLEUM OIL	OAD 7000 GALLONS . N.O.S.
Sheve Heffenger	Har U. A. En		11.1	pers. Mark
Printed / Typed Name	Signature //		Date Date	) 1
TREATMENT FACILITY OPERATOR:	F 17	e.		•
The described materials were handled by m	e, the treatment facility named above, a	nd were accepted.		
Printed / Typed Name	Signature		Date	

# ENVIROTECH INC.

# Bill of Lading

JOB# 100701/2684

3# /U//UN 268

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

RECEIVED HUN D 8 2001 **DRIVER SIGNATURE** TRANSPORTING COMPANY TRK# TIME SSS COMPANY BBLS YDS BB-18 GRID MATERIAL COMPLETE DESCRIPTION OF SHIPMENT **DESTINATION** POINT OF ORIGIN MANIFEST Š

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added." SIGNATURE COMPANY NAME

DATE

To Re-order Call 325-9600 or Fax 325-9764 alphagraphics\* FORM # 01

# ROTECH

# Bill of Lading

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

JOB #

DATE 2-23-0

NO. POINT OF ORIGIN DESTINATION MATERIAL GRID YOS BBLS COMPANY THAN TIME DRIVER SIGNATURE CONTRACTOR THAN TIME DRIVER SIGNATURE CONTRACTOR THAN TIME DRIVER SIGNATURE CONTRACTOR THAN TIME DRIVER SIGNATURE CONTRACTOR THAN TIME DRIVER SIGNATURE CONTRACTOR THAN THAN TIME BLOW Inentitored Generator, NAME SIGNATURE CONTRACTOR THAN THAN THAN THAN THAN THAN THAN THAN	MANIFEST	COMPLETE [	COMPLETE DESCRIPTION OF SHIPMENT	: SHIPMENT				TRANSPORTING COMPANY	RTING (	SOMPA	٨٨	
With material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned General at no additional materials have been added.	ON	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATUR	<u> </u>
y the marerial hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned General at no additional materials have been added:  COMPANY:  COMPANY:	* an	1 11	915	4 7 3	ら で が	5.5		3		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second of th	
If the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generals at no additional materials have been added.	200	1	-	50 20 2	36	30		6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	1 ( S )	06.51	1	N
ly the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generat at no additional materials have been added.										,		)
y the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generat at no additional materials have been added.	٠.									-		
by the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generat at no additional materials have been added."												
If the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generate at no additional materials have been added."  SIGNATURE  SIGNATURE		·										
y the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generatian or additional materials have been added."  SigNATURE							التناقيا	<b>9</b> (1) {				1002
y the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generation at no additional materials have been added."  SIGNATURE			,					3D)				9 7
y the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generate at no additional materials have been added."  SignATURE			and a second	\$				GINN COLUMN				LER
y the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generate at no additional materials have been added."  COMPANY							ule.	0'6'				NED
y the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generate at no additional materials have been added."  SIGNATURE							-	E E				Ecel.
"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."  COMPANY  COMPANY			-									BE
"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."  SIGNATURE												
"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."  NAME  SIGNATURE										; ,		
COMPANY CONTRACTOR	"I certify the ma and that no add	terial hauled from the above	location has not b	een added to or mi	xed with	, and i	is the sa	me material receive	d from th	ле ароує	mentioned Generator	ي ا
		The state of the s		PANY CONTRACT	100			SIGNATUR			A CONTRACT OF THE PROPERTY OF	1

DATE 2: 23-6



PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

# Bill of Lading

JOB # All Description of the Control

DATE

1000

2 7 2001 RECEIVED FEB DRIVER SIGNATURE "I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, Land State State And Marketing TRANSPORTING COMPANY TRK# TIME MM 06 M COMPANY BBLS YDS ACM. GRID MATERIAL COMPLETE DESCRIPTION OF SHIPMENT 14 DESTINATION 11 and that no additional materials have been added." POINT OF ORIGIN Sold of the Assessment of the State of the S MANIFEST Š.

To Re-order Call 325-9600 or Fax 325-9764 Biphagraphins FORM # 01

NAME

DATE

SIGNATURE



## Bill of Lading

JOB # MOTONA 1735

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO.87401

DATE OZZZO!

	JRE	1000	VV	A. S.							7 1 200	J=W				lor,
	DRIVER SIGNATURE	The state of the s	12	TO SO			1000	26		U:	Lin	BEC				d Genera
	DRIVER	1.6.00		9.60	Con Control											nentionec
OMPANY	TIME	0,0	800	188	3.00 M											above n
TING C	TRK#	R	1000	B	3											d from the
TRANSPORTING COMPANY	COMPANY	Escrister Marille	Contraction of	Enry Collection	TO WESTER H				<b>B</b> 1	LLE		MAR	06	200		and is the same material received from the above mentioned Generator
	BBLS	Christian Contraction of the Con	M	9	10							,				is the san
	YDS						1							*		), and
	GRID	BE	M.S.M.	563 180	6618							pro to			(3)	ixed with
SHIPMENT	MATERIAL	Cast 501	test Comes	Cost 50.1	The Softwar			,		J-4						en added to or mixed with,
COMPLETE DESCRIPTION OF SHIPN	DESTINATION	Then the	English Erri	Blood L	11/1/200 20	)							;			ocation has not be
COMPLETE DI	POINT OF ORIGIN	Partie State The Com	Total Ban Elle	In the was the	La till 1800 bleed											"I certify the material hauled from the above location has not been ad and that no additional materials have been added."
MANIFEST	NO.	1140		M	Sec. Contraction of the Contract			,	3	-						"I certify the mal and that no addi

to Re-order Call 325-9600 or Fax 325-9764 alphagraphies\* FORM # 01

NAME



P.O. Box 900 5651 US Highway 64 Farmington, NM 87499 505-327-0416 • fax 505-327-4962

### 131941

MILES

DATE 5-25-01

un			DATE
L941			
			TRUCK NO. 1518
	2 111	d'w	stech Inc
CUSTOMER _		Arre	JECTU THO
DRIVER_S	rnest	- <u>Ua</u>	100285 NO
LOCATION		Bloom	rield Huy IN Fat Van
1 di8	208al		COUNTY Sun Juan
	1	HRS.	SIGNATURE
TOP ME	A.M. P.M.		REC'D BY
TOP	Δ Μ		

FROM OIL WATER STARTING TIME ST TII A.M. 1. BBLS, HAULED P.M. STARTING P.M. STOP REC'D BY P.M. 2. BBLS, HAULED TIME STOP TIME A.M. **STARTING** A.M. REC'D BY 3. BBLS, HAULED TIME P.M. P.M. STOP A.M. STARTING A.M. REC'D BY 4. BBLS, HAULED P.M. TIME P.M TIME STARTING TIME A.M. (P.M. STOP A.M. REC'D BY 5. BBLS, HAULED P.M. TIME STARTING A.M. STOP A.M. REC'D BY 6. BBLS, HAULED TIME P.M. TIME P.M. STARTING A.M. STOP A.M. REC'D BY 7. BBLS. HAULED P.M. TIME P.M. TIME STARTING A.M. STOP A.M. 8. BBLS, HAULED REC'D BY TIME P.M. TIME P.M. STARTING STOP A.M. A.M. 9. BBLS, HAULED REC'D BY TIME P.M. TIME P.M. TOTAL HOURS 320 TOTAL BBLS. 00.00 PER \$ 420.DL HIGH GAUGE

COMPANY MAN Harlan M. Brown LOW GAUGE

LEGAL DESCRIPTION—

SEC. TOWNSHIP — RANGE

REMARKS Keep Water cleaned up as drew wish

ONE WAY,

FUEL SURCHG 12.60
ENV SURCHG 2/0

SUBTOTAL 434.70

TAX 25.0



131938

DATE 5-24-01

TRUCK NO. 1523

Key Energy Services, Inc.

P.O. Box 900 5651 US Highway 64 Farmington, NM 87499 505-327-0416 • fax 505-327-4962 Sustomer Envirotech Inc

DRIVER ETVEST Valdesono.

LOCATION 5928 Bloomfield Hwy IN Fab

FROM Samp	P,7	slw	uter 1	anksto_	K	ey	disposal	·	COUNTY SAN J	uan
	OIL	WATER						HRS.	SIGNATURE	
1. BBLS. HAULED			STARTING TIME		A.M. P.M.	STOP TIME	A.M. P.M.		REC'D BY	
2. BBLS. HAULED		8	STARTING TIME	1730	A.M.	STOP TIME	A.M. P.M.		REC'D BY	
3. BBLS. HAULED		80	STARTING TIME		A.M. P.M	STOP	SES AM.	4	REC'D BY	
4. BBLS. HAULED	:		STARTING TIME		A.M. P.M.	STOP TIME	A.M. P.M.		REC'D BY	
5. BBLS. HAULED			STARTING TIME		A.M. P.M.	STOP TIME	A.M. P.M.		REC'D BY	
6. BBLS. HAULED			STARTING TIME	·	A.M. P.M.	STOP TIME	A.M. P.M.		REC'D BY	
7. BBLS. HAULED			STARTING TIME		A.M. P.M.	STOP TIME	A.M. P.M.		REC'D BY	
8. BBLS. HAULED			STARTING TIME		A.M. P.M.	STOP TIME	A.M. P.M.		REC'D BY	
9. BBLS. HAULED			STARTING TIME		A.M. P.M.	STOP TIME	A.M. P.M.		REC'D BY	
TOTAL BBLS.				HIGH G	AUGE		TOTAL HOURS	4	60.00per \$	240.00
COMPANY MAN Harlan M. Brown LOW GAUGE FUEL SURCHG 7.20										
LEGAL DESCRIPTION -			SEC.		OWNSH	P	RANGE		ENV. SURCHG	1,27
REMARKS									SUBTOTAL	248,40
									TAX	\$ 1428
									- TA	262.62



#### Key Energy Services, Inc.

Four Corners

WATER	DISPOSAL
-------	----------

(505) 334-6186

County Road 3500 Crouch Mesa Bypass

P.O. Box 900 Farmington, NM 87499

KEY ENERGY SERVICES, INC. Reserves the right to refuse any material being hauled into this disposal.

DATE	<u>5 - dr</u>	4-0		
CUSTOMER	Env	irote	ih.	
WELL NAME/N	UMBER59	18 Bloo	mfild of	imf
TRUCKING CC	MPANY K	teen	<u> </u>	<i>'</i>
. 1	ldy	O <sub>UNIT N</sub>	10.1523	3
DELIVERY TIC	KET#	13193	8	

LOAD	WATER	TIME	AM	PM	DRIVER SIGNATURE
1	80	3:05			Coursto Valols
2	80				Track total
3					
		<del> </del>	<u></u>	L	
☐ H <sub>2</sub> S _	Non Ex	cempt		Load Description:	
No H <sub>2</sub>	S	☐ Waste	Oil	bbls	537.60
Black		White	Water L	ight Med	ed Heavy 160 X3.36 36.91

Solid content%	1st clear
	2 Loads @ = 537.60
Company	268.80
Penrocentative A A	

Representative Signature

Total = \_

san juan reproduction 291-26



#### Key Energy Services, Inc.

Four Corners

WATER DISPOSAL

(505) 334-6186

County Road 3500 Crouch Mesa Bypass

P.O. Box 900 Farmington, NM 87499

KEY ENERGY SERVICES, INC. Reserves the right to refuse any material being hauled into this disposal.

DATE 5-25-01
CUSTOMER Envirotech
WELL NAME/NUMBER 5928 Bloomfuldon
1).
TRUCKING COMPANY YOU
DRIVER Valdy UNIT NO. 1518
DELIVERY TICKET # 8 131941

LOAD	WATER	TIME AM	I PM	PRIVER SIGNATURE
1	80	1:30		June 1/00 268.80
2				15.46
3				80X3.34 0 284.26
☐ H <sub>2</sub> S ppm		Non Exempl	t	Load Description: Umy Our
No H <sub>2</sub> S	3	☐ Waste Oil _	_ bbls	- Assessi

No H <sub>2</sub> S	Waste Oil bbls		
Black			
Solid content%	Loads @	268	= 268 <sup>8</sup>
Company Representative Signature	onlistan		Total =

MINIMULANDA

san juan reproduction 291-26



#### Key Energy Services, Inc.

Four Corners

w	ΔΤ	ER	וח	SP	റട	ΔI

(505) 334-6186

County Road 3500 Crouch Mesa Bypass P.O. Box 900 Farmington, NM 87499

KEY ENERGY SERVICES, INC. Reserves the right to refuse any material being hauled into this disposal.

DATE	5-2	5-01	
CUSTOMER	Env	irot	<u>ēch</u>
WELL NAME/NU	JMBER 59	28 Bloo	mbelldm
TRUCKING COL	MPANY K	ey	
DRIVER Va	ldy	UNIT NO	. 1518
DELIVERY TICK	KET# 8	3194	-1

LOAD	WATER	TIME	AM	PM		DRIVER SIGNATURE	
1	80	10:00			drus	to Volde.	
2	20				Knei	all los	
3	80				Trone	It Vildo	
				1	<u> </u>		

☐ H <sub>2</sub> S ppm	Non Exempt	Load Description:		
X No H₂S	Waste Oil bbls	806.4C		
Black		46.37 240X334 852.7		
Solid content%	3 Loads	s@_268=_806.40		
O =				

Company
Representative
Signature

Jimmy Bankston

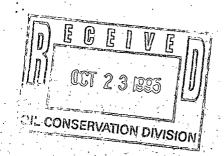
Total = \_\_\_\_\_san juan reproduction 291-26



RECEIVED

OCT 2 3 1995

Environmental Bureau Oil Conservation Division



### SOIL SAMPLE ANALYSIS RESULTS ENERGY PRODUCTION SYSTEMS, INC. 5928 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO

SEPTEMBER 1995 PROJECT NO: 91386

Randal Popplewell Energy Production systems, Inc. 5928 U.S. Highway 64 Farmington, NM 87401

Ref:

H<sub>2</sub>0 spill of August 29, 1995, soil sample analysis results

Dear Mr. Popplewell:

September 26,1995

talked to Jack Collins io/26/05 he said the results are on totals - 50 divide by 20.

Enclosed are the results of the soil sample analysis that Envirotech collected at your manufacturing site at 5928 U.S. Highway 64. We have also enclosed a sketch map that shows the location of the soil sample.

This spill resulted in an unknown amount of fresh rinse water being accidently discharged to the surface drainage. From the point of discharge the water followed the natural drainage approximately 400 feet downgradient, but stopped approximately 100 feet short of an intermittent stream along the east side of the site.

A five point composite soil sample was collected from within the spill area from the surface to approximately 0.5 ft. deep along the lower most 10 feet of the spill.

Results of these analysis are evaluated using TCLP regulatory limits for these constituents (Ref. 40 CFR Section 261 Subpart C TCLP levels).

The Toxic Leaching Procedure (TCLP) is one of the Resource Conservation and Recovery Act (RCRA) hazardous characteristics analyses designated by the US EPA to determine if a Waste material is hazardous. The TCLP is published in 40 CFR 261.24, Appendix II method 1311 TCLP.

As the TCLP extraction uses a 20 x weight of extraction liquid per weight of solid sample, it can be assumed that the regulatory limits would have to be exceeded by a factor of 20 in a total metal analysis. None of the total metal analysis exceed this limit. The two highest metals barium and lead are evaluated as follows: Total barium in the sample was 456 mg/Kg. The TCLP regulatory limit for barium is 100 mg/L or approximately 2000 mg/Kg. Total lead in the sample was 9.35 mg/Kg. The TCLP regulatory limit for lead is 5 mg/L or approximately 100 mg/Kg.

Ig HLC = ICC or INL  $|L = |fill ml of H_2O |, fill g = 1 Kg$   $|L = |fill ml of H_2O |, fill g = 1 Kg$ 5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865 Therefore, based on the above assumptions and the actual constituent results, this material is not a hazardous waste as defined by 40 CFR 261 Subpart C for the targeted constituents.

Sincerely,

C. Jack Collins, P.G.

Hydrogeologist

Enclosures: Lab Reports

Sketch Map

CJC/cjc

Reviewed

Morris D. Young

President

Spill.rpt

EPS Bloomfield Highway
Proposition 9:20

8-30-95'
C. Jack Collins
Environeth INC.

	·	
	Shop	
	HzO spill	
٠	Office	
1.50	Shop	soil sample 0-6" deeps
	surface drainage	55# 1 sond, tay, Br 10me, wors
		ritch !
-Highway	64 West	
Highway	64 EHST	



#### TRACE METAL ANALYSIS

Client: **EPS** Project #: 91386 Sample ID: SS #1 0-6" Date Reported: 09-11-95 **Laboratory Number:** 8848 Date Sampled: 08-30-95 Chain of Custody: 4370 Date Received: 08-30-95 Soil Sample Matrix: Date Analyzed: 09-11-95 Preservative: Cool Analysis Needed: Trace metals

Condition: Cool & Intact

			Det.
	Concentration	1.50	Limit TUP
Parameter	(mg/Kg)	WALL	(mg/Kg)

Arsenic	mg/l ND0.1 mg/l0.001 _5.0 mg/l
Barium	
Cadmium	0.0274 0.548 0.01 mg/l 0.001 -1.0 mg/l
Chromium	70. 2035 4.07 - 0.05 mg/l - 0.001 - 5.0 mg/l
Lead	0.4675 9.35 0.05 mg/l 0.001 5.0 mg/l
Mercury	~ ND / 0.002 - 0.20 - 1.10
Selenium	ND
Silver	
	no mall os mall

ND - Parameter not detected at the stated detection limit.

References: Method 3050, Acid Digestion of Sediments, Sludges, and Soils for total

Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7760 Analysis of Metals by

GFAA and FLAA, SW-846, USEPA.

Comments: Farmington Office, Hwy 64.

Analyst L. Ojenen

Stacy Sendles by Rong



### QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



### TRACE METAL ANALYSIS BLANKS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	QA/QC Blanks 09-11-95-Blank Water Cool N/A	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis Needed:	N/A 09-11-95 N/A N/A 09-11-95 Trace Metals
Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic Barium Cadmium Chromium Lead Mercury Selenium	ND ND ND ND ND ND ND	ND ND ND ND ND ND	0.001 0.001 0.001 0.001 0.002 0.001

ND - Parameter not detected at the stated detection limit.

ND

References:

Silver

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

ND

Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7760 Analysis of Metals by

GFAA and FLAA, SW-846, USEPA.

Comments:

QA/QC for sample 8848.

Analyst

Stocy Soulb. by Kiny
Review

0.001



### TRACE METAL ANALYSIS DUPLICATE

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-11-95
Laboratory Number:	8848	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	09-11-95
Condition:	N/A	-	

	Sample	Duplicate		
	Result	Result	Percent	
Parameter	(mg/Kg)	(mg/Kg)	Difference	

Arsenic	ND	ND	0.0%
Barium	456.	<b>458</b> .	0.4%
Cadmium	0.548	0.567	3.4%
Chromium	4.07	4.09	0.5%
Lead	9.35	9.38	0.3%
Mercury	ND	· ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference

**Trace Metals** 

30 %

References:

Method 3050 Acid Digestion of Sediments, Sludges, and Soils for Total

Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7760 Analysis of Metals by

GFAA and FLAA, SW-846, USEPA.

Comments:

QA/QC for sample 8848.

Analyst L. afelia

Review Sendle & Roy



### TRACE METAL ANALYSIS SPIKE

Client:
Sample ID:

QA/QC Laboratory Spike Project #:
Date Reported:

N/A 09-11-95

Laboratory Number: Sample Matrix:

8848 Soil Date Sampled:

N/A

Analysis Requested:

Soil Trace Metals Date Received:

Date Analyzed:

N/A 09-11-95

Condition:

N/A

	Spike	Sample	Spiked Sample	
	Added	Result	Result	Percent
Parameter	(mg/Kg)	(mg/Kg)	(mg/Kg)	Recovery

Arsenic	4.81	ND.	4.77	99%
Barium	48.1	458	504	100%
Cadmium	4.81	0.322	5.07	99%
Chromium	4.81	0.091	4.87	99%
Lead	4.81	1.36	6.09	99%
Mercury	2.40	ND	2.35	98%
Selenium	4.81	ND	4.79	100%
Silver	48.1	ND	49.0	102%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:

Parameter

Acceptance Range %

**Trace Metals** 

80 - 120 %

References:

Method 3050, Acid Digestion of Sediments, Sludges, and Soils for Total

Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7760 Analysis of Metals by

GFAA and FLAA, SW-846, USEPA.

Comments:

QA/QC for samples 8848.

Analyst 4.

Review Longles by Rome,



#### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	EPS	Project#:	91386
Sample ID:	SS #1 0 - 6"	Date Reported:	08-31-95
Laboratory Number:	8848	Date Sampled:	08-30-95
Chain of Custody:	4370	Date Received:	08-30-95
Sample Matrix:	Soil	Date Analyzed:	08-31-95
Preservative:	Cool	Date Extracted:	08-31-95
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	29.6
Toluene	ND	33.9
Ethylbenzene	ND	31.7
p,m-Xylene	ND	27.0
o-Xylene	ND	39.9

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	101 %

References:

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

July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, Sept. 1994.

Comments:

Farmington Office, Hwy 64.

Seun L Cylener Analyst

Parious Parious



### QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	08-31-95
Laboratory Number:	08-31-BTEX.BLANK	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-31-95
Condition:	N/A	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND .	0.4
Toluene	ND	0.5
Ethylbenzene	ND	0.5
p,m-Xylene	ND	0.4
o-Xylene	ND	0.6

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	101 %
	1.3.78	

References:

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

July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, Sept. 1994.

Comments:

QA/QC for sample 8848.

Alexe L. Gjane

Neview Sendler ky Romy



#### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client: QA/QC
Sample ID: Matrix Duplicate
Laboratory Number: 8848
Sample Matrix: Soil
Preservative: Cool

Date Reported:
Date Sampled:
Date Received:
Date Analyzed:

Project #:

08-31-95 N/A N/A

N/A

Condition: Cool and Intact

Analysis Requested:

08-30-95 BTEX

Parameter	Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Difference
Danzana	NO	ND	20.0	
Benzene	, ND	ND	29.6	0.0%
Toluene	ND	ND	33.9	0.0%
Ethylbenzene	ND	ND	31.7	0.0%
p,m-Xylene	ND	ND	27.0	0.0%
o-Xylene	ND ·	ND	39.9	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:

Parameter •

Maximum Difference

8020 Compounds

30 %

References:

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

July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, Sept. 1994.

Comments:

QA/QC for sample 8848.

Analyst

Stay Sendler by Rmy Review



#### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	08-31-95
Laboratory Number:	8848	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	08-31-95
Condition:	Cool and Intact	Date Analyzed:	08-31-95

Parameter	Sample Result (ug/Kg)	Spike Added (ug/Kg)	Spiked Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene	ND	50.0	51.2	29.6	102%	39-150
Toluene	ND	<b>50.0</b> <sup>9</sup>	69.8	33.9	100%	46-148
Ethylbenzene	ND	50.0	50.5	31.7	99%	32-160
p,m-Xylene	ND	100	126	27.0	99%	46-148
o-Xylene	ND	50.0	62.5	39.9	98%	46-148

ND - Parameter not detected at the stated detection limit.

References:

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

July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, Sept. 1994.

Comments:

QA/QC for sample 8848.

Select J. Gjeren

Review Sender ky kmy



### EPA Method 8010 Halogenated Volatile Organics

Client: **EPS** Project #: 91386 Sample ID: SS#1 0-6" Date Reported: 09-01-95 Chain of Custody: 4370 Date Sampled: 08-30-95 Laboratory Number: 8848 Date Received: 08-30-95 Sample Matrix: Soil Date Analyzed: 08-31-95 Preservative: Cool Analysis Requested: 8010

Condition: Cool and Intact

	Concentration	Det. Limit
Parameter	(ug/kg)	(ug/kg)
Chloromethane	ND	33.3
Vinyl Chloride	ND	33.3
Bromomethane	ND	33.3
Chloroethane	ND	33.3
1,1-Dichloroethene	ND	33.3
trans-1,2-Dichloroethene	ND	33.3
1,1-Dichloroethane	ND	33.3
Chloroform	ND	33.3
1,1,1-Trichloroethane	ND	33.3
Carbon tetrachloride	ND	33.3
1,2-Dichloroethane	ND	20.0
Tricholoroethene	ND	33.3
1,2-Dichloropropane	ND	26.6
Bromodichloromethane	ND	33.3
trans-1,3-Dichloropropene	ND	33.3
1,1,2-Trichloroethane	ND	13.4
Tetrachloroethene	ND	20.0
Dibromochloromethane	ND .	33.3
Bromoform	ND	33.3
1,1,2,2-Tetrachloroethane	ND	20.0

ND = Parameter not detected at the stated detection limit.

SURROGATE RECOVERIES:	Parameter	Percent Recovery

Trifluorotoluene 97% Bromofluorobenzene 94%

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992

Comments: Farmington Office, Hwy 64.

Review Sendle Ly Rom



### QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



### EPA Method 8010 Halogenated Volatile Organics Quality Assurance Report

QA/QC Client: Project #: N/A Laboratory Blank Sample ID: Date Reported: 09-01-95 08-31-VOL.BLANK **Laboratory Number:** Date Sampled: N/A Sample Matrix: Water Date Received: N/A N/A Preservative: Date Analyzed: 08-31-95 Analysis Requested: Condition: N/A 8010

	Concentration		Det. Limit
Parameter	(ug/L)		(ug/L)
Chloromethane	ND		0.5
Vinyl Chloride	ND		0.5
Bromomethane	ND		0.5
Chloroethane	ND		0.5
1,1-Dichloroethene	ND	·	0.5
trans-1,2-Dichloroethene	ND		0.5
1,1-Dichloroethane	ND	• .	0.5
Chloroform	ND		0.5
1,1,1-Trichloroethane	ND		0.5
Carbon tetrachloride	ND		0.5
1,2-Dichloroethane	ND		0.3
Tricholoroethene	ND	·	0.5
1,2-Dichloropropane	ND	•	0.4
Bromodichloromethane	ND	;	0.5
trans-1,3-Dichloropropene	ND	• •	0.5
1,1,2-Trichloroethane	ND	•	0.2
Tetrachloroethene	ND		0.3
Dibromochloromethane	ND .		0.5 0.5
Bromoform	ND		0.5 0.5
1,1,2,2-Tetrachloroethane	ND	•	0.3

ND = Parameter not detected at the stated detection limit.

SURROGATE RECOVERIES:	Parameter	Percent Recovery
SURRUGATE RECOVERIES.	raiailietei	reicelli Necovery

Trifluorotoluene Bromofluorobenzene 101% 98%

References:

Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992

Comments:

QA/QC for sample 8848.

Analyst d. Coleman

Review Sendle & Rom



### EPA Method 8010 **Halogenated Volatile Organics Quality Assurance Report**

Client: Sample ID:

Laboratory Number: Sample Matrix:

Analysis Requested: Condition:

QA/QC

**Matrix Duplicate** 

8848 Soil

8010 N/A

Project #:

Date Reported:

09-01-95

Date Sampled: Date Received: N/A N/A

N/A

Date Analyzed:

08-31-95

			Duplicate		
Parameter	Sample Result (ug/kg)		Sample Result (ug/kg)	Det. Limit (ug/kg)	Percent Difference
Chloromethane	ND		ND	33.3	0.0%
Vinyl Chloride	ND		ND ·	33.3	0.0%
Bromomethane	ND		ND	33.3	0.0%
Chloroethane	ND		ND .	33.3	0.0%
1,1-Dichloroethene	ND		ND	33.3	0.0%
trans-1,1-DCEthene	ND		ND	33.3	0.0%
1,1-Dichloroethane	ND		ND	33.3	0.0%
Chlorofrom	ND		ND	33.3	0.0%
1,1,1-TCEthane	ND	4	ND	33.3	0.0%
Carbon tetrachioride	ND	*	ND .	33.3	0.0%
1,2-Dichloroethane	ND	+	ND	20.0	0.0%
Trichloroethene	ND		ND	33.3	0.0%
1,2-Dichloropropane	ND	•	ND	26.6	0.0%
Bromodichloromethane	ND		ND	33.3	0.0%
t-1,3-Dichloropropane	ND		ND	33.3	0.0%
1,1,2-TCEthene	ND	*	ND	13.4	0.0%
Tetrachioroethene	ND		ND .	20.0	0.0%
Dibromochloromethane	ND		ND	33.3	0.0%
Bromoform	ND	٠.	ND	33.3	0.0%
1,1,2,2-Tetrachloroethane	ND	•	ND	20.0	0.0%

ND = Parameter not detected at the stated detection limit.

References:

Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992

Comments:

QA/QC for sample 8848.



### EPA Method 8010 Halogenated Volatile Organics Quality Assurance Report

Client: Sample ID:

Condition:

QA/QC Matrix Spike

Laboratory Number: Sample Matrix:

8848 Soil

Analysis Requested:

8010 N/A Project #: Date Reported: N/A

Date Sampled:
Date Received:

09-01-95 N/A N/A

Date Analyzed:

08-31-95

Spiked							
Sample	Spike	Sample	Det.	Percent	% Rec.		
Result	Added	Result	Limit	Recovery	Accept.		
(ug/kg)	(ug/kg) (ug/kg)		(ug/kg)		Range		
ND	333	348	33.3	104	1-193		
ND	333	338	33.3	101	28-163		
ND	333	340	33.3	102	1-144		
ND	333	335	33.3	95	46-137		
ND	333	307	33.3	89	28-167		
ND	333	338	33.3	101	38-155		
ND	333	316	33.3	95	47-132		
ND	333	319	33.3	96	49-133		
ND	333	316	33.3	95	41-138		
ND	333	341	33.3	99	43-143		
ND	333	330	20.0	98	51-147		
ND	333	354	33.3	106	35-146		
ND	333	350	26.7	104	44-156		
ND	333	335	33.3	100	42-172		
ND	333	336	33.3	98 -	22-178		
	Result (ug/kg)  ND ND ND ND ND ND ND ND ND ND ND ND ND	Result (ug/kg)  ND 333	Sample Result (ug/kg)         Spike (ug/kg)         Sample Result (ug/kg)           ND         333         348           ND         333         340           ND         333         340           ND         333         335           ND         333         307           ND         333         316           ND         333         316           ND         333         316           ND         333         341           ND         333         341           ND         333         354           ND         333         350           ND         333         350           ND         333         350           ND         333         350           ND         333         350	Sample Result (ug/kg)         Spike (ug/kg)         Sample Result (ug/kg)         Det. Limit (ug/kg)           ND         333         348         33.3           ND         333         338         33.3           ND         333         340         33.3           ND         333         335         33.3           ND         333         307         33.3           ND         333         316         33.3           ND         333         316         33.3           ND         333         316         33.3           ND         333         316         33.3           ND         333         341         33.3           ND         333         341         33.3           ND         333         354         33.3           ND         333         354         33.3           ND         333         350         26.7           ND         333         350         26.7           ND         333         335         33.3	Sample Result (ug/kg)         Spike (ug/kg)         Sample (ug/kg)         Det. Limit (ug/kg)         Percent Recovery (ug/kg)           ND         333         348         33.3         104           ND         333         340         33.3         101           ND         333         340         33.3         102           ND         333         335         33.3         95           ND         333         307         33.3         89           ND         333         316         33.3         95           ND         333         341         33.3         95           ND         333         341         33.3         95           ND         333         341         33.3         95           ND         333         354         33.3         106           ND         333         354         33.3         106           ND         333         350         26.7         104		

ND = Parameter not detected at the stated detection limit.

References:

**Bromoform** 

1,1,2-TCEthene

**Tetrachloroethene** 

Dibromochloromethane

1,1,2,2-Tetrachloroethane

Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,

333

333

333

333

333

SW-846, USEPA, July 1992.

ND

ND

ND

ND

ND

Method 8010, Halogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992

Comments:

QA/QC for sample 8848.

Dew L. Gener

Review Sentler by Rong

13.5

20.0

33.3

33.3

20.0

107

95

106

100

112

39-136

26-162

24-191

13-159

8-184

359

326

375

343

372

2506 W. Main Street Farmington, New Mexico 87401

Client:

**Envirotech** 

Project:

EPS .

Sample ID:

SS#1 0"-6"

Laboratory ID: Sample Matrix: 42166

Soil Extract

Condition:

Cool/Intact

Date Reported:

09/19/95

Date Sampled:

08/30/95

Time Sampled:

1434

Date Received:

08/31/95

	Analytical			
Parameter	Result	Units		Units
Lab pH	7.5	s.u.		
Lab Conductivity @ 25° C	2,960	umhos/cm		•
Total Alkalinity as CaCO3	213	mg/L		
Total Hardness as CaCO3 (calc.)	1,520	mg/L	·	
SAR	1.227	ratio		
Bicarbonate as HCO3	260	mg/L	4.26	meq/L
Carbonate as CO3	0	mg/L	0.00	meq/L
Hydroxide as OH	0	mg/L	0.00	meq/L
Nitrate Nitrogen	2.20	mg/L	0.16	meq/L
Nitrite Nitrogen	0.22	mg/L	0.02	meq/L
Chloride	76	mg/L	2.14	meq/L
Sulfate	1,350	mg/L	28.06	meq/L
Calcium	554	mg/L	27.62	meq/L
Magnesium	35	mg/L	2.85	meq/L
Potassium	14	mg/L	0.35	meq/L
Sodium	110	mg/L	4.79	meq/L
Cations	35.61	meq/L		
Anions	34.63	meq/L		
Cation/Anion Difference			1.39	%

Reference:

U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

"Standard Methods For The Examination Of Water And Waste Water", 18th ed., 1992.

**Comments:** 

Reported by Yw

Reviewed by 33

2506 W. Main Street Farmington, New Mexico 87401

Client:

**Envirotech** 

Project:

**EPS** 

Sample ID:

**Lab Control** 

Laboratory ID:

QC

Sample Matrix:

Soil Extract

Condition:

Cool/Intact

Date Reported:

09/19/95

Date Sampled:

08/30/95

Time Sampled:

N/A

Date Received:

08/31/95

Parameter	Analytical Result	Units		Units	
ab pH	6.8	s.u.			
ab Conductivity @ 25° C	9,370	umhos/cm			
otal Alkalinity as CaCO3	316	mg/L		•	
otal Hardness as CaCO3 (calc.)	1,590	mg/L	•		
SAR	16.120	ratio			
Bicarbonate as HCO3	<1	mg/L	6.32	meq/L	
Carbonate as CO3	0	mg/L	0.00	meq/L	
Hydroxide as OH	0	mg/L	0.00	meq/L	
Nitrate Nitrogen	61.6	mg/L	4.40	meq/L	
Nitrite Nitrogen	1.20	mg/L	0.09	meq/L	
Chloride	170	mg/L	4.78	meq/L	
Sulfate	4,860	mg/L	101.17	meq/L	<b></b> .
Calcium	394	mg/L	19.67	meq/L	
Magnesium	148	mg/L	12.14	meq/L	
Potassium	21	mg/L	0.53	meq/L	
Sodium	1,480	mg/L	64.29	meq/L	
ations	96.63	meq/L			
nions	116.75	meq/L			
Cation/Anion Difference			9.43	%	

Reference:

U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

"Standard Methods For The Examination Of Water And Waste Water", 18th ed., 1992.

Comments:

Reported by\_

Reviewed by 85

# CHAIN OF CUSTODY RECORD

				_	 		 		 	<del></del>				_
	Relinquished by: (Signature)	Relinquished by: (Signature)	P. Jan Cod	Re uished by: (Signature)						SS #1 0-6"	Sample No./ Identification	Sampler: (Signature)	EPS/91:	
		`	1.							A-30-8	Sample Date	B.	98816	
	·									1484	Sample Time			
			8					·		2488	Lab Number	Chain of Custody Tape No.	Farming M	
•			8-30-8 1450	Date Time						Suil	Sample Matrix	No.	pro Office	CHAIN OF CUSTOUT RECORD
	Received by: (Signature)	Received by: (Signature)	2	Received by: (Signature)						2	No Con	o. of tainers		A AGO!
	(Signature	(Signature	7	(Signature						5	80			(ECOT
	)			)						<	80 2			ê
			مرج							<	RUME	Callin	ANAL	
			1			\  \				1	An	Calley	YSIS/PAR	
		ļ			 -								ANALYSIS/PARAMETERS	
į													S	
ļ-			12-0-5	Date								Remarks		
			ash J	Time									,	

ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615

sen juan rapro Form 578-81