# GW- 71-0

## GENERAL CORRESPONDENCE

## YEAR(S): 1997-1996



Roger Ardenson

June 13, 1997

Mr. Denny Foust New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

#### **RE:** Application for Exception to Division Order R-8952

Dear Denny:

Please find attached four copies of an Application for Exception to Division Order R-8952 for the lined Chaco Plant contact wastewater ponds (Discharge Plan GW-071). These ponds have an oil separation system up stream of the point of discharge, and are also equipped with an oil recovery system in case of an inadvertent release.

If you have any questions about the facility, or need additional information, please call me at (505) 599-2256.

Sincerely yours,

anil Bay

David Bays

cc: G. Hoover
M. D. Hansen
S. D. Miller/R. D. Cosby/Chaco Plant Regulatory file



Submit 4 Copies to Appropriate Distinct Office

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<u>ISTRICT I</u> r.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II P.O. Drawer DD, Artania, NM 82211-0719 DISTRICT III 1000 Rio Brazos Rd., Azar, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department Form C-134 Aug. 1, 1969

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OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Permit No. (For Division Use Only)

FOR PF	AP ROTECTION (	PLICATIO OF MIGRAT	N FOR EXC TORY BIRDS	EPTION TO I Rule 8(b), Ru	DIVISION OF the 105(b), Rule	RDER = 312(1	<b>R-89</b> : 1), Ru	52 le 313,	or Rule	711(T)
Operator Na	ne:E1 ]	Paso Field	Services Co	).						
Operator Adi	tress:614	Reilly Fa	armington, N	₩ 87401						
Lease or Fac	ility Name_Cha	aco Plant			Location		K	16	26N	<u>12W</u>
Size of pit or	tank: 2 ponds	s - each is	3 210 feet b	oy 210 feet		Ut.	Ltr.	Sec.	Twp.	Rge
Operator req	uests exception	from the requ	irement to scre	en, net or cover	the pit or tank a	t the at	ove-c	lescribe	d facility.	
The	pit or tank is not	hazardous to	migratory wat	erlowi. Describe	completely the	reason	pit is	non-haz	cardous.	
Thes	e ponds are	down strea	am from an c	oil water seg	paration sys	tem ar	nd ar	e equi	lped wi	th
a 3	GPM skimmer	to collect	: any oil wh	nich escapes	from the s	eparat	ors.			
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_3 G	PM of float:	ing oil. 1	The ponds an	re also equip	oped with bo	oms to	tra	p any	oil ne	ar the
inl	et. The est	imated rec	overy time	for a relase	e is 8 hours	•		-		
2)	If any oil or hy	drocarbons re	ach the above-	described facility	the operator is	require	d to n	otify the	•	
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Printed Name		David Bays			<b>NONE NO.</b>	/ 599-	2230	<u></u>		
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FOR OIL CON	ISERVATION D	IVISION USE			Corstan Service	2017 F	× · · · ·			
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#### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 57410 (505) 334-6175 Fax (505)334-6170

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

June 26, 1997

San Juan County Public Works Director 305 South Oliver Drive Aztec NM 87410-2436

RE: Use of Non-contact Wastewater for Use in County Road Construction and Maintenance

Dear Mr. Keck:

Mr. David Bays of El Paso Field Services has requested that we re-authorize you to use non-contact wastewater generated and discharged at the El Paso Field Services (Chaco Plant), for San Juan County road construction and maintenance.

You may use this water as proposed with the following conditions:

- 1. The water will be applied so that no excess water runs off into roadside ditches or into any watercourse.
- 2. At the end of each day's activity, unused water will be stored in trucks or tanks so the water does not drip or drain onto the ground overnight. Alternatively, the water may be returned to the Chaco Plant, if no other material has been added to the water intentionally or accidentally mixed with liquids that were previously contained in any truck or tank.

This approval is for one year, starting on this letter date and any further requests beyond that time must be approved by this office. This approval does not relieve you of liability should your operation result in actual pollution of surface waters, ground waters, or the environment that may be actionable under other laws and/or regulations. In addition, OCD approval does not relieve San Juan County of responsibility for compliance with any other county, state, federal, or other local laws and/or regulations.

Sincerely,

Frank T. Chavez District Supervisor

FTC\sh

cc: Roger Anderson David Bays, El Paso Field Services (Chaco Plant)



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

June 13, 1997

#### <u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P - 326-936-610</u>

Mr. David Bays El Paso Field Services (EPFS) P.O. Box 4990 Farmington, NM 87499

RE: Wastewater Ponds - May 15, 1997 GW-71, Chaco Plant San Juan County, NM

Dear Mr. Bays:

The New Mexico Oil Conservation Division (OCD) received on May 21, 1997 a letter from EPFS dated May 15, 1997 regarding the "Wastewater" ponds at Chaco Plant. The OCD approves of the proposed plan of action from EPFS at the Chaco Plant (GW-071) with the following conditions:

1. Mr. Denny Foust with the Aztec OCD office will be notified at least 72 hours in advance of any field activity involving this approved project. (505-334-6178)

2. The new wells upon construction need to be sampled for the WQCC parameters listed in 20 NMAC 6.2. Subpart III, 3103 constituents in order to establish base line water quality for the new monitor wells. Upon completion of this sampling EPFS may use the existing parameters used at the other monitor wells.

2. A "Field Report" to include the construction diagrams, geologic logs, a map showing the location of the monitor wells, and the sample results outlined in (2) above will be submitted to the OCD Santa Fe Division and Aztec District Offices 60 days after completion of the activity in point (2) above..

Note, that OCD approval does not relieve EPFS of liability should EPFS operation's result in contamination of surface water, ground water, or the environment. OCD approval does not relieve EPFS from compliance with other federal, state, and local regulations/rules that may apply.

Sincerely,

Patricio W. Sanchez, Petroleum Engineering Specialist Environmental Bureau

c: Mr. Denny Foust - Aztec District Office, OCD.

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May 15, 1997

Mr. Bill Olson New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe. NM 87505

### RECEIVED

MAY 21 1997

Environmental Bureau Oil Conservation Division

#### Discharge Plan GW-071 Wastewater Ponds

**RE: El Paso Field Services Co. Chaco Plant** 

Dear Bill:

As you are aware from conversations and correspondence over the past several months, the primary liners of the contact wastewater ponds at El Paso Field Services Co. (EPFS) Chaco Plant were tested during November of 1995. The liners in both the north and south ponds were found to be leaking. A temporary lined pond was installed to contain the contact wastewater while repairs were made, and once the ponds were drained and cleaned thoroughly, the liners were repaired during August 1996.

Once the repairs to liners, the water circulation pumps, and enhanced evaporation sprayers were made, the liners were again tested using a red colored fluorescent dye. The results thus far are as follows.

#### South Contact Pond

As of May 14, 1997 no dye has been found in the leak detection wells of the south pond. It appears that the liner repairs to the south pond were successful. EPFS will continue to monitor the south pond leak detection system on our normal monthly schedule.

#### North Contact Pond

Both leak detection wells on the north pond contain water. One of the wells also contains red dye, clearly indicating that the primary liner is still leaking. Both wells are now equipped with automatic pumps to keep the liquids pumped out. Since the repairs last summer were the second attempt to repair the liner since it was installed in 1993, EPFS believes that a more effective alternative would be to take the following actions.

Mr. Bill Olson May 15, 1997 Page 2

- 1. Install two additional groundwater monitoring wells, numbered 9 and 10, near the north contact pond. The attached plot plan shows the relative locations of the ponds, along with the existing and proposed monitoring wells. Due to the high volumes of water discharged into the two unlined, non-contact wastewater ponds EPFS believes that the two proposed wells should be down gradient from the north contact water pond.
- 2. Through waste minimization reduce, and ultimately eliminate discharge to the north contact water pond. The pond will be left in place in case of emergencies.
- 3. Collect samples from the new monitoring wells quarterly for one year. The samples will be tested for pH, total dissolved solids, benzene, ethyl benzene, xylenes, toluene, and total petroleum hydrocarbons. If no groundwater impact has been found, then collect additional samples annually for two more years, or until the north pond is empty. If the annual samples still show no impact on the groundwater, then discontinue sampling of wells number 9 and 10. If any groundwater contamination is identified, then a new action plan will be developed for remediation and long term monitoring.

#### **Temporary Lined Pond**

The temporary lined pond is now dry, and the solids which had accumulated along the east end have been removed. After the required waste characterization was completed, these solids were transported to the Envirotech landfill for disposal. EPFS proposes to close the temporary pond by folding the liner down away from the berm, and then leveling the pond area.

If you need any additional information, or have any questions about this proposed work plan, please call me at (505) 599-2256.

Sincerely yours,

Janid Bay

David Bays Sr. Environmental Scientist

cc: Mr. Denny Foust - NMOCD - Aztec, NM Mr. Pat Sanchez - NMOCD - Santa Fe, NM





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

June 10, 1997

#### <u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. P - 410-431-403</u>

Mr. David Bays El Paso Field Services (EPFS) P.O. Box 4990 Farmington, NM 87499

RE: Molecular Sieve-April 4, 1997 GW-71, Chaco Plant San Juan County, NM

Dear Mr. Bays:

The New Mexico Oil Conservation Division (OCD) received on May 28, 1997 a letter from EPFS dated April 4, 1997 requesting that the RCRA Subtitle C Exempt Molecular Sieve be spread on the facility as road base. The OCD approves of the spreading of 10 cubic yards of this molecular sieve for the beneficial use as road base at the EPFS Chaco plant within the facility area with the following condition:

• The molecular sieve will be liquid free prior to spreading.

Note, that OCD approval does not relieve EPFS of liability should EPFS operation's result in contamination of surface water, ground water, or the environment. OCD approval does not relieve EPFS from compliance with other federal, state, and local regulations/rules that may apply.

Sincerely.

Patricio W. Sanchez, Petroleum Engineering Specialist Environmental Bureau

c: Mr. Denny Foust - Aztec District Office, OCD.

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PS Form 3800, April 1995



April 4, 1997

Mr. Patricio Sanchez New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505



RE: Disposal of Molecular Sieve at Chaco Plant

Dear Pat:

During the annual plant shutdown at the El Paso Field Services Co. (EPFS) Chaco Plant, we plan to replace the molecular sieve in one dehydration unit. The shut down is currently scheduled to be in July. The dehydrator contains approximately 10 cubic yards of molecular sieve. EPFS would like to dispose of the used material by spreading it on a graveled road within the plant yard.

EPFS Furnished a Material Safety Data Sheet for the molecular sieve to you on April 4, 1997. The material is an activated alumina compound contained in a calcium carbonate matrix, and is virtually inert when removed from service. If you need any additional information or have any questions about the proposed on-site disposal, please call me at (505) 599-2256.

Sincerely yours,

anil Bap

David Bays Sr. Environmental Scientist

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MAY 3 0 1997

Convertential Bureau Oil Conservation Division

cc: Denny Foust - NMOCD - Aztec
Mike Hansen
Gerry Hoover
S. D. Miller/R. D. Cosby/Chaco Regulatory file



May 22, 1997

Mr. Ernie Busch New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87510 RECEIVED

MAY 3 0 1997

Environmental Bureau Oil Conservation Division

RE: Use of El Paso Field Services Co. Chaco Plant Non-Contact Wastewater for Dust Suppression on County Roads

Dear Mr. Busch:

Last year you authorized the use of non-contact waste water from the El Paso Field Services Co. (EPFS) Chaco Plant to control dust on county roads. The authorization was sent to Mr. David Keck, San Juan County Publis Works Director, with copies to Mr. Roger Anderson and to EPFS.

EPFS would like to request authorization to continue furnishing this waste water to San Juan County under the same conditions as agreed last year.

- 1. The water will be applied so that no excess runs off into roadside ditches or into any watercourse.
- 2. At the end of each day all unused water will be stored in trucks or tanks, or returned to the Chaco Plant.

If you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

sul Bay

**David Bays** 

cc: Mr. Roger Anderson Mr. Mike Hansen Mr. Gerry Hoover Mr. David Keck - San Juan County S. D. Miller/R. D. Cosby/J. S. Sterrett/Chaco Regulatory File



May 15, 1997



MAY 2 0 1997

Environmental Bureau Oil Conservation Division

Mr. Bill Olson New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe. NM 87505

#### RE: El Paso Field Services Co. Chaco Plant Discharge Plan GW-071 Wastewater Ponds

Dear Bill:

As you are aware from conversations and correspondence over the past several months, the primary liners of the contact wastewater ponds at El Paso Field Services Co. (EPFS) Chaco Plant were tested during November of 1995. The liners in both the north and south ponds were found to be leaking. A temporary lined pond was installed to contain the contact wastewater while repairs were made, and once the ponds were drained and cleaned thoroughly, the liners were repaired during August 1996.

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Mr. Bill Olson May 15, 1997 Page 2

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If you need any additional information, or have any questions about this proposed work plan, please call me at (505) 599-2256.

Sincerely yours,

Danid Bay

David Bays Sr. Environmental Scientist

cc: Mr. Denny Foust - NMOCD - Aztec, NM Mr. Pat Sanchez - NMOCD - Santa Fe, NM



MW-7

El Paso Field Services Co. Chaco Plant Proposed Monitoring Well Locations -North Contact Waste Water Pond

MW\_-6



STATE OF NEW MEXICO

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

May 1, 1997

#### CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-807

Ms. Sandra Miller Superintendent, Environmental Compliance El Paso Energy Company P.O. Box 4990 Farmington, NM 87499

#### RE: Discharge Plan Renewal GW-071 Chaco Gas Plant San Juan County, New Mexico

Dear Ms. Miller:

The discharge plan renewal GW-071 for the El Paso Energy Company Chaco Gas Plant located in the SW/4, Section 16, Township 26 North, Range 12 West, NMPM, San Juan County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. The discharge plan renewal consists of the application from El Paso Energy Company dated March 4, 1997, and this approval letter with conditions of approval from OCD dated May 1, 1997. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within ten working days of receipt of this letter.

The discharge plan renewal application was submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission Regulations. Please note Sections 3109.E and 3109.F which provide for possible future amendments or modifications of the plan. Please be advised that the approval of this plan does not relieve **El Paso Energy Company** of liability should the operations associated with this facility result in pollution of surface water, ground water, or the environment.

Please be advised that all exposed pits, including lined pits and open top tanks (tanks exceeding 16 feet in diameter), shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Mr. Sandra Miller GW-071 Renewal El Paso Energy Company May 1, 1997 Page 2

Please note that Section 3104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C El Paso Energy Company is required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.G.4, this plan is for a period of five (5) years. This approval will expire May 18, 2002, and an application for renewal should be submitted in ample time before that date. It should be noted that all discharge plan facilities will be required to submit plans for, or the results of, an underground drainage testing program as a requirement for discharge plan approval.

The discharge plan for the El Paso Energy Company Chaco Gas Plant GW-071 is subject to the WQCC Regulation 3114 discharge plan fee. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of fifty dollars (\$50) plus the flat fee of one thousand six-hundred and sixty-seven dollars and fifty cents (\$1,667.50) for Natural Gas Plants renewing discharge plans.

#### The \$50 filing fee and the \$1,667.50 flat fee have been received by the OCD.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely, 288 258 807 Ρ US Postal Service Receipt for Certifical Mail No Insurance Coverage Provided. William J. LeMay Do not use for International Mail (See reverse) Director at & Number 6~-07 WJL/pws Post Office, State, & ZIP Code Attachment \$ Postage **Certified** Fee Special Delivery Fee **Restricted Delivery Fee** 995 **Return Receipt Showing to** c: Mr. Denny Foust - Aztec OCD Environmental Geologist Whom & Date Delivered April **Return Receipt Showing to Whom** Date, & Addressee's Address 3800. TOTAL Postage & Fees \$ Postmark or Date Fom പ്പ



Mr. Sandra Miller GW-071 Renewal El Paso Energy Company May 1, 1997 Page 3

#### ATTACHMENT TO DISCHARGE PLAN GW-071 El Paso Energy Company - Chaco Gas Plant DISCHARGE PLAN REQUIREMENTS (May 1, 1997)

1. <u>El Paso Energy Company Commitments:</u> El Paso Energy Company will abide by all commitments submitted in the application from El Paso Energy Company dated March 4, 1997, and this approval letter with conditions of approval from OCD dated May 1, 1997.

2. **Drum Storage:** All drums containing materials other than fresh water must be stored on an impermeable pad and curb type containment. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets should also be stored on an impermeable pad and curb type containment.

All drums and chemical containers shall be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill, or ignite.

3. <u>Process Areas</u>: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

4. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad.

5. <u>Above Ground Saddle Tanks</u>: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

6. <u>Tank Labeling</u>: All tanks should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

7. <u>Below Grade Tanks/Sumps</u>: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks that do not have secondary containment and leak detection must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks /or sumps.



8. <u>Underground Process/Wastewater Lines</u>: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years there after. Companies may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing so that an OCD representative may witness the testing.

9. <u>Housekeeping</u>: All systems designed for spill collection/prevention should be inspected to ensure proper operation and to prevent overtopping or system failure.

Any solid contaminated with a non-exempt waste at the facility will be tested for hazardous constituents, and after receiving OCD approval, will be disposed of at an OCD approved site.

10. <u>Spill Reporting</u>: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the Aztec OCD District Office at (505)-334-6178.

12. <u>Transfer of Discharge Plan:</u> The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

13. <u>Closure:</u> The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

14. <u>Certification:</u> El Paso Energy Company, by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. El Paso Energy Company, further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect groundwater, human health and the environment.

Accepted:

El Paso Energy Company

by\_\_

Title



#### United States Department of the Interior

FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna NE Albuquerque, New Mexico 87113 Phone: (505) 761-4525 Fax: (505) 761-4542

April 17, 1997



#### APR 28 1997

William J. Lemay, Director Oil Conservation Division 2040 South Pacheco Sante Fe, New Mexico 87505

Environmental Bureau Oil Conservation Division

Dear Mr. Lemay:

This responds to your agency's public notice dated March 13, 1997, regarding the discharge plan renewal application for the applicant described below:

(GW-071) - El Paso Energy Company. Ms. Sandra Miller has submitted an application for renewal of the company's approved discharge plan for the Chaco Gas Plant located in Section 16, Township 26 North, Range 12 West, San Juan County, New Mexico. Contact process waste water will be discharged into synthetically double lined evaporation ponds equipped with leak detection capability.

The U.S. Fish and Wildlife Service (Service) typically recommends the use of excluding technology (nets, fences, enclosed tanks, etc.) to prevent migratory bird and other wildlife access to any brine or produced water storage ponds, evaporative ponds, open tanks, or lagoons that contain toxic chemicals, or that may harbor a surface oil sheen. During flight, migratory birds may not distinguish between an evaporation or storage pond and a natural waterbody: the artificial waterbody may serve as an "attractive nuisance" if measures are not taken to exclude migratory birds from access.

Our intent is to inform and intercede before any migratory bird deaths occur, since these birds constitute a legally protected resource. Under the Migratory Bird Treaty Act (MBTA), the courts have held that an operator of process waste water storage facilities may be held liable for an "illegal take" of migratory birds. An "illegal take" has been interpreted to include accidental poisoning or accumulation of harmful concentrations of contaminants by migratory birds, which might occur as a result of access to the stored water. Hydrocarbon pollutants, for instance, can be carried to the nest on breast feathers, feet, or in nesting materials, where the eggs can subsequently become contaminated, leading to embryo death and reduced hatchability.

We therefore recommend to the Oil Conservation Division that these evaporative ponds be constructed in a manner that prevents bird access (e.g., netted), or that the applicant demonstrate that the retained waters are "bird-safe" (e.g., can meet New Mexico general water quality standards 1102.B, 1102.F, and 3101.K or 3101.L). If the construction and operation of such structures results in migratory bird deaths and the problem is not addressed, the operator may be held liable under the enforcement provisions of the MBTA.

William J. Lemay, Director

The Service would rather prevent a problem resulting from migratory bird access to contaminated ponds than take enforcement actions, which are expensive and disruptive to legitimate mineral extraction and energy production activities.

On April 20, 1994, portions of the San Juan River in San Juan County, New Mexico, were designated as critical habitat for the federally-listed endangered Colorado squawfish and razorback sucker. The critical habitat for the Colorado squawfish is the reach of the San Juan River from the Highway 371 Bridge (in Farmington) to Neskahai Canyon on the San Juan Arm of Lake Powell in Utah. Critical habitat for the razorback sucker includes the reach of the San Juan River from the Hogback Diversion (west of Waterflow, New Mexico) to Neskahai Canyon.

Due to considerations for protection of critical habitat for the Colorado squawfish and the razorback sucker, as well as to individuals or populations of squawfish that may be located upstream from the critical habitat boundary, we urge you to also ensure that discharge plan GW-071 contains adequate provisions (such as spill containment berms) to ensure the protection of these endangered fish. In the event of a release of pollutants into the San Juan River, or of pollutants that eventually reach the San Juan River, the Service and/or the New Mexico Department of Game and Fish should be notified immediately.

We request that you provide applicants receiving discharge plan approvals for facilities near the San Juan River in San Juan County with the following emergency notification information:

U.S. Fish and Wildlife Service New Mexico Ecological Services Field Office 2105 Osuna NE Albuquerque, NM 87113 Telephone (505) 761-4525 Fax (505) 761-4542 New Mexico Dept. of Game & Fish Villagra Building P.O. Box 25112 Santa Fe, NM 87504 Telephone (505) 827-7882 Fax (505) 827-7801

Thank you for the opportunity to review and comment on this discharge plan application. If you have any questions about these comments, please contact Dennis Byrnes at (505) 761-4525.

RECEIVED

APR 2 8 1997

Environmental Bureau Oil Conservation Division Sincerely,

Jennifer Fowler-Props

Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico Geographic Manager, New Mexico Ecosystems, U.S. Fish and Wildlife Service,

Albuquerque, New Mexico

Senior Resident Agent, U.S. Fish and Wildlife Service, Albuquerque, New Mexico Migratory Bird Office, U.S. Fish and Wildlife Service, Albuquerque, New Mexico





April 4, 1997

Mr. Patricio Sanchez New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505

RE: Disposal of Molecular Sieve at Chaco Plant

Dear Pat:

Based on your letter of March 11, El Paso Field Services has disposed of a total of approximately 5 drums of used molecular sieve at the Chaco Plant by spreading on an inplant road. The Material Safety Data Sheet for molecular sieve is attached. If you need any additional information regarding the disposal, please call me at (505) 599-2256.

Sincerely yours,

suil Bay

David Bays Sr. Environmental Scientist

cc: Denny Foust - NMOCD - Aztec Mike Hansen Gerry Hoover S. D. Miller/R. D. Cosby/Chaco Regulatory file



The information contained herein is based upon data considered true and accurate, However, Grace makes no warranties, express or implied, as to the accuracy or adequacy or the information contained herein or the results to be obtained from the use thereof. This information is oliefy for the user's consideration, investigation and verification. Since the use and conditions of tise of this information and the material described herein are not within the control of Grace. Grace a summer no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to Grace. Grace a Terms and conditions of Sale including those limiting warrantee and user contained therein it is the responsibility for injury to the user in described herein and this date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information is to account on the user in described herein and the date and information and the date and information is to account on the user in described herein and the date and information is to account on the date account of the date and information is to account on the date and information and account of the date and information and account on the date and information and account of the date and information and account on the date account on t

HEALTH INFORMATION

Page 2 of 4

#### **PRECAUTIONS IN USE:**

Avoid prolonged breathing of the dust or contact of dust with the skin. The drying action of this material can cause irritation of the mucous membranes of the nose and throat and irritation of the skin. If its use requires manual handling, wear long sleeves and close-weave cotton gloves with tight-fitting wristlets. If dusty conditions prevail, use of an approved NIOSH/MSHA dust mask is recommended.

When pouring into a container of flammable liquid, ground both containers electrically to prevent a static electric spark.

Will release heat when adsorbing water. If a large quantity of sieve quickly adsorbs the equilibrium amount of water, the sieves can become hot enough to cause thermal burns of the skin. Avoid contact under these conditions. See SPECIAL INFORMATION, p. 4.

#### FIRST AID:

EYES: Immediately wash from eyes with large amounts of water, occasionally lifting upper & lower eye lids. If irritation occurs and persists, seek medical attention <u>SKIN</u>: Wash with soap & water. <u>INGESTION</u>: Material will pass through body normally. INHALATION: Remove to fresh air.

#### TOXICOLOGY

#### ANIMAL TOXICOLOGY

#### TESTS FOR DOT HAZARD CLASSIFICATION:

Tests on Na<sub>2</sub>O X-TYPE sieves gave the following results:

1-hour  $LC_{50}$  (rat) > 2.8 mg/l 48-hour oral  $LD_{50}$  (rat) est. > 31,600 mg/kg 48-hour dermal  $LD_{50}$  (rabbit) est. > 2,000 mg/kg Not considered an ocular irritant.

#### TESTS FOR FDA APPROVAL FOR USE IN FOODS: Not a food-grade product.

Molecular Sieves are non-fibrous, synthetic aluminosilicates (zeolites) not to be confused with natural zeolites. All studies to date indicate that they do not cause significant health problems. When activated, molecular sieves act as a desiccant and can cause a drying irritation of the mucous membranes and skin in cases of severe exposure. The average concentration of quartz in this material is less 2.0% (maximum

**HUMAN TOXICOLOGY:** - 3.0%). Quartz has been classified by IARC as a Class 2A Carcinogen. Quartz can cause cancer, silicosis or other fibrotic lung disease with prolonged exposure. Davison knows of no medical conditions abnormally aggravated by exposure to this product. The primary route of entry is inhalation.

### MATEI AL SAFETY DATA CHEET

#### ENVIRONMENTAL DATA

i

Not known to have any adverse effect on the aquatic environment when properly disposed. Insoluble and nontoxic.

	TYPICAL CHEM	WICAL & PHYSICAL INFORMATION
APPEARANCE:	White, g	gray, or tan, beads.
pH IN 5% SLURRY:	10.3 - 1	10.5
ODOR:	Odorless	S
SPECIFIC GRAVITY:	2.1	
BULK DENSITY:	Powder G Beaded G	Grades 5-15 lbs/ft. <sup>3</sup> Grades 40-50 lbs/ft. <sup>3</sup>
LUBILITY WATER:	Insolubl	le
APPROXIMATE ANALYSIS:	Mol ratios: Weight %:	A-TYPE: $1Na_20:1Al_2O_3:2SiO_2:XH_2O$ A-TYPE: $0.8CaO:0.2Na_0:1.0Al_2O_3:2.0SiO_2.xH_2O$ A-TYPE: $0.6K_2O:0.4N_2O:1.0Al_2O_3:2.0SiO_2.xH_2O$ X-TYPE: $1Na_2O:1Al_2O_3:2.8SiO_2:xH_2O$ Y-TYPE: $1Na_2O:1Al_2O_3:5.0SiO_2:xH_2O$ CLAY: $3 MgO.1.Al_2O_3.8SiO_2.9H_2O$ Quartz: < 2 (typical) Maximum = 3.0
STABILITY:	Stable	
REACTIVITY:	Reacts w	vith HF and strong acids or alkali
FIRE & EXPLOSION DATA:	Non-flam	nmable

#### **REGULATORY STATUS**

OSHA— NIOSH—	PEL: Quartz, respirable = 0.1 mg/M <sup>3</sup> divided by (% quartz + 2) Quartz, total = 30 mg/M <sup>3</sup> divided by (% quartz + 2) Molecular Sieve = not listed, recommend 10 mg/M <sup>3</sup> Not included on the list of substances requiring toxicity studies.					
EPA-	This product contains no toxic chemicals in excess of the applicable de minimis concentration as specified under § 313 of Title III SARA.					
ACGIH—	GIH- TLV: Quartz, respirable = 0.1 mg/M <sup>3</sup> Quartz, total = not listed Molecular Signa = act listed					
USDA-	Not applicable.	eve - Not fisted, fecommend to mg/M				
FDA—	Not applicable.					
DOT-	Not classified as a hazardous material.					
		HANDLING INFORMATION				
STORAGE AN TRANSPOR		Keep containers tightly sealed to protect product quality.				
DISPOSAL:		Landfill in accordance with local, state and federal regulations. Cover to avoid blowing of dust. See Special Information, below.				
SPILLAGE AN	D CLEANUP:	Vacuum or sweep up or flush to sewer treated for suspended solids removal.				

CONTAINERS: Bags and drum containers. Also available in other packaging as required, including bulk shipments by truck.

#### SPECIAL INFORMATION

When transferring beaded molecular sieves with high pressure air, wear goggles. Malfunction of equipment can propel beads with enough velocity to penetrate the skin. Make sure that the transfer system and receiving vessels are properly grounded. Follow standard operating instructions.

Following contact with typical petrochemicals or gases, molecular sieves must be handled with special precautions. The combination of molecular sieves and retained material can be flammable and toxic. Care should be taken to avoid sources of ignition and to avoid personal contact. Use approved disposal methods suitable for toxic wastes.

> information contained herein is based upon data considered true and accurate. However, Grace makes no warranties, express or implied, as to the accuracy or adequacy of the information contained rein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of use of this information and reinarities are not within the control of Grace, Grace assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to Grace's Terms is a solution to be a limiting warrantice and reserve to the user or third persons. The material described herein is sold only pursuant to Grace's Terms.

Page 4 of 4



#### APR 03 1997

Environmental Bureau Oil Conservation Division

COPY OF PUBLICATION

#### AFFIDAVIT OF PUBLICATION

No. 37680

#### STATE OF NEW MEXICO County of San Juan:

**DENISE H. HENSON** being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Wednesday, March 26, 1997;

and the cost of publication is: \$66.11.

#### On 3-27-97 DENISE H. HENSON

appeared before me, whom I know personally to be the person who signed the above document.

My Commission Expires November 1, 2000



OKay 1011 4-3-97



Since 1849. We Read You.

NM OIL DIVISION ATTN: SALLY MARTINEZ 2040 S. PACHECO ST SANTA FE, NM 87505

	AD NUMBER:	010001	<u>ACCOUNT.</u> 50005
	LEGAL NO:	61398	<u>P.O. #:</u> 96-199-002997
168	LINES	ONCE	\$67.20
Affidavits:			5.25
Tax:			4.53
Total:			\$ 76.98

ACCOUNT. 56680

AD NUMBER. 610651

#### AFFIDAVIT OF PUBLICATION

#### NOTICE OF PUBLICATION STATE OF NEW MEXICO

#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico, 87505, Telephone (505) 827-7131:

(GW-071) - El Paso Energy Company, Ms. Sandra Miller, (505)-599-2141, P.O. Box 4990, Farmington, NM, 87499, has submitted a Discharge Plan Renewal Application for their Chaco Gas Plant located in the SW/4, Section 16, Township 26 North, Range 12 West, NMPM, San Juan County, New Mexico, Contact process waste water is discharged into synthetically double lined surface evaporation ponds with leak detection. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 220 feet with a total dissolved solids concentration ranging from 560 to 1,000 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may Legal#61398 obtain further information Pub. March 21, 1997

vision and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan renewal application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person, Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

from the Oil Conservation Di-

If no public hearing is held, the Director will approve or disapprove the proposed plan renewal based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan renewal based on the information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 13th day of March 1997.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director Legal (61398 STATE OF NEW MEXICO COUNTY OF SANTA FE

being first duly sworn declare and I, BETSY PERNER say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN.a daily news paper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly gualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 61398 \_\_\_\_\_ a copy of which is hereto attached was published in said newspaper once each for ONE consecutive week(s) and that the no-WEEK tice was published in the newspaper proper and not in any supplement; the first publication being on the 21 day of MARCH 1997 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit. /s/ LEGAL ADVERTISEMENT REPRESENTATIVE Subscribed and sworn to before me on this 3-27-47 Okay to Pay DWG A.D. 1997 21 day of MARCH 10 Notary Expires Commission OFFICIAL SEAL Candace, C. Ruiz NOTARY PUBLIC 13:31 My Commission Expires:

202 East Marcy Street • P.O. Box 2048 • Santa Fe, New Mexico 87501 505~983~3303

#### ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

No.

COPYBAN+ ANTI-FRAUD PROTECTION - PATENTS 4,210,348; 4,227,720; 4,310,180; 5,197,785

I hereby acknowledge receipt	of check No. dated 3/16/97
or cash received on	in the amount of \$ 1717.50
from El Paso field	lennes
for Chaco G.P	GW-071.
Submitted by:	09 Maj
Submitted to ASD by: RCL	2nders- Date: 3/19/97
Received in ASD by:	Date:
Filing Fee $\underline{X}$ New Fa	cility Renewal X
Modification Othe	r
Organization Code <u>521,07</u>	Applicable FY <u>97</u>
To be deposited in the Water Full Payment or /	Quality Management Fund. Annual Increment
MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AN 2500 CITYWEST B HOUSTON, TX 77042 EL PASO FIELD SERVICES Pay ****One Thousand Seven Hundred Seventeen and 50/100 L	VD.EVENEYIEROM DARK TO LIGHT WITH DARKER AREAS BAR OF PAYABLE AS Payable AS CITIBANE DELAWARE ONE PENN'S WAY NEW CASTLE, DE 19720 311 Date 03/06/97 JS Dollars****
To The Order Of	Pay Amount \$1,717.50****
NEW MEXICO OIL CONSERVATION DIVISON NMED WATER QUALITY MANAGEMENT 2040 SOUTH PACHECO STREET SANTA FE, NM 87505	Void After 1 Year

Authorized Signature

Chack Data: (	02/06/07 EI D			Bhanai 712/510	2026	Theek Nee
Vouchor C	03/00/9/ EL P.	ASU FIELD SERV	ICES COMPANY	Phone: /13/510	-2930	Deid Amount
Voucher C	omment			<u>Amount</u>		t Paid Amount
	Marco GP	AL CAREA9/0304	03104737	\$1,/1/ <i>.</i> 30	\$U.U	<b>, , , , , , , , , ,</b>
					-	
Vendor Num	ber NEW MEXICO	Vendor Name ) OIL CONSERVAT	<u>FION</u>	Total	Discounts \$0.00	
Check Number	Data	A coount No	Total Amount	Diana	mt Takam	Total Daid Amount
Check Number	er Date	Account No.	Total Amount	Discou	int Taken	Total Paid Amount

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#### NOTICE OF PUBLICATION

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(GW-071) - El Paso Energy Company, Ms. Sandra Miller, (505)-599-2141, P.O. Box 4990, Farmington, NM, 87499, has submitted a Discharge Plan Renewal Application for their Chaco Gas Plant located in the SW/4, Section 16, Township 26 North, Range 12 West, NMPM, San Juan County, New Mexico. Contact process waste water is discharged into synthetically double lined surface evaporation ponds with leak detection. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 220 feet with a total dissolved solids concentration ranging from 560 to 1,000 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

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If no public hearing is held, the Director will approve or disapprove the proposed plan renewal based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan renewal based on information in the discharge plan application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 13th day of March, 1997.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director WJL/pws

SEAL



P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 PHONE: (505) 599-2175

March 6, 1997

#### CERTIFIED MAIL P 358 645 400 RETURN/RECEIPT/REQUESTED

**BECEIVED** 

MAR 1 2 1997

Environmental Bureau Oil Conservation Division

(See file Horacopy)

Mr. Roger C. Anderson Environmental Bureau Chief New Mexico Oil Conservation Division 2040 S. Pacheco St. Santa Fe, NM 87505

Re: Discharge Plan GW-071 Renewal Chaco Gas Plant San Juan County, New Mexico

Dear Mr. Anderson:

Transmitted herein is the Groundwater Discharge Plan Renewal Application pursuant to the Water Quality Control Commission (WQCC) regulations for the Chaco Gas Plant located in Section 16, Township 26 North, Range 12 West, San Juan County, New Mexico. The Renewal Application was formatted per the written NMOCD Discharge Plan Guidelines.

In conjunction with this Application, El Paso Field Services (EPFS) would like to bring several items to your attention. The secondary containment acid berms at the "A" and "B" Cooling Towers have developed some irreparable cracks and are currently being replaced. Also, EPFS is requesting a modification to the drain leak testing schedule.

One of the conditions in the December 21, 1995 approval for the Discharge Plan (GW-071) Major Modification for installing the Cryogenic Plant states that all discharge plan facilities are required to pressure test all underground (drain) piping at the time of discharge plan renewal. However, since all of the operating drain systems at Chaco are relatively new (either replaced or newly installed in 1994 and 1996) and were pressure tested before being placed in service, EPFS requests that all of the drains not be retested at this time but be retested together prior to the next discharge plan renewal, during a scheduled maintenance shutdown of the total plant. All of the wastewater drains at Chaco are tied to common drain systems to minimize underground drain piping. Pressure testing any portion of these drain lines would require shutting down both the 400 MMSCFD and the 200 MMSCFD plant trains and disrupting gas service throughout El Paso's system.

Enclosed is the original discharge plan renewal application and one copy, along with a check for \$1,717.50 (filing fee of \$50.00 plus a flat fee of \$1,667.50 for Gas Plants). An additional copy of the renewal application is being sent to the OCD Aztec District Office.

If you have questions concerning this renewal application, please contact me at the above address, or at (505) 599-2175.

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I.

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Sincerely yours,

ch. tenell ()

John S. Sterrett, Consulting Engineer

cc:

\* :

w/o attachments Mr. W. D. Hall Ms. S. D. Miller

P. O. Box 19	New Iviexico
Hobbs, NM District II -	(505) 748-1283 Oil Conservation Diffion
811 S. First Artesia, NM	88210 2040 South Pacheco Street Plu
District III	(505) 334-6178 Santa Fe, New Mexico 87505
Aztec, NM 8	azos Road (505) 827-7131 Copy to a Dis
. District IV	(505) 827-7131
	DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES
	GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS
	(Refer to the OCD Guidelines for assistance in completing the applicati RECEIVE
	Conservation Divis
1.	Type:Gas Processing Plant
2.	Operator. El Paso Field Services
	Address: P 0 Box 4990 Farmington New Mexico 87499-99
	Contact Person: Ms. Sandra D. Miller Phone: 505-599-2141
2	SW /A /A Section 16 Township 26N Bango 12W
J.	Submit large scale topographic map showing exact location.
A	Attach the name, telephone number and address of the landowner of the facility site
4.	
5.	Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the
<b>6.</b>	Attach a description of all materials stored or used at the facility.
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of water must be included
0	Attack a description of augont liquid and solid waste collection/tractment/disposal procedures
ð.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.
11.	Attach a contingency plan for reporting and clean-up of spills or releases.
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be incl
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any othe rules, regulations and/or orders.
14.	CERTIFICATION
	I herby certify that the information submitted with this application is true and correct to the best of my know and belief.
	NAME: John S Sterrett Title: Consulting Engineer
	Signature: () the there the Date: 3/4/97

File Copy BECEIVED



MAR 1 2 1997

Environmental Bureau Oil Conservation Division

## **EL PASO ENERGY COMPANY**

Chaco Gas Processing Plant

Discharge Plan Renewal. GW-71

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P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499 PHONE: (505) 599-2175

March 6, 1997

#### CERTIFIED MAIL P 358 645 400 RETURN/RECEIPT/REQUESTED

MAR 1 2 1997

Environmental Bureau Oil Conservation Division

**BECEIVED** 

Mr. Roger C. Anderson Environmental Bureau Chief New Mexico Oil Conservation Division 2045 S. Pacheco St. Santa Fe, NM 87505

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If you have questions concerning this renewal application, please contact me at the above address, or at (505) 599-2175.

Sincerely yours,

Jch tenell

John S. Sterrett, Consulting Engineer

cc:

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w/o attachments Mr. W. D. Hall Ms. S. D. Miller

District 1 - (5	05) 393-6161 New Mexico
P. O. Box 1980 Hobbs, NM 8	Energy Minerals and Natural Resources Department Revised
<u>District II</u> - (. 811 S. First	Oil Conservation Division Submit C
Artesia, NM 8 <u>District III</u> - (	8210 2040 South Pacheco Street Plus 1   (505) 334-6178 Santa Fe. New Mexico 87505 to S
1000 Rio Braz Aztec, NM 87	tos Road (505) 827-7131 l Copy to appr 410 Distric
District IV - (	505) 827-7131
	DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,
	GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS
	New Renewal Modification MAR 1 2 1997
1.	Type: Gas Processing Plant Oil Conservation Division
2	Onemter El Paso Field Services
۷.	
	Address: P 0 Box 4990 Farmington New Mexico 87499-99
	Contact Person: Ms. Sandra D. Miller Phone: 505-599-2141
3.	Location:/4/4 Section16 Township26N Range Submit large scale topographic map showing exact location.
4.	Attach the name, telephone number and address of the landowner of the facility site.
5.	Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the fac
6.	Attach a description of all materials stored or used at the facility.
7.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of water must be included.
8.	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9.	Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10.	Attach a routine inspection and maintenance plan to ensure permit compliance.
11.	Attach a contingency plan for reporting and clean-up of spills or releases.
12.	Attach geological/hydrological information for the facility. Depth to and quality of ground water must be incluc
13.	Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other ( rules, regulations and/or orders.
14.	CERTIFICATION
	I herby certify that the information submitted with this application is true and correct to the best of my knowl∉ and belief.
	NAME: John S Sterrett Title: Consulting Engineer
	Signature: Date: Date:
	<b>/</b>

# EL PASO ENERGY COMPANY

Chaco Gas Processing Plant

Discharge Plan Renewal, GW-71

# I. TYPE OF OPERATION

The Chaco Gas Processing Plant has a design capacity of 600 MMSCFD. Major plant processes include inlet, residue, refrigeration, compression, dehydration, and cryogenic recovery. Both residue gas and NGL's are sold via pipeline from the plant.

# II. OPERATOR

# Legally Responsible Party:

Mr. Hugh A. Shaffer Vice President, Operations and Engineering El Paso Field Services Destec Tower 2500 Citywest Blvd. Houston, TX 77042 (713) 529-2933

#### Local Representative:

Ms. Sandra D. Miller Superintendent, Compliance El Paso Field Services P. O. Box 4990 Farmington, NM 87499 (505) 599-2141

# III. LOCATION OF DISCHARGE/FACILITY

SW/4 Section 16, Township 26 North, Range 12 West, San Juan County, New Mexico, approximately 20 miles south of Farmington, New Mexico. (Figure 1).

# IV. LANDOWNERS

El Paso Energy Company P. O. Box 4990 Farmington, New Mexico 87499

Industrial Ponds #4, #5, #6 and #7 and monitoring wells MW-1, MW-2, and MW-4 (see Figure 2) are located on Navajo Land, west of the Chaco Plant.

Bureau of Indian Affairs Navajo Area Office Branch of Real Estate Services Post Office Box 1060 Gallup, New Mexico, 87305-1060

# V. FACILITY DESCRIPTION

The Original Discharge Plan (GW-71) includes a detailed description of the facility. This Discharge Plan was submitted in November 1991 and approved in May 1992.

A modification to the Original Discharge Plan was submitted in July 1993 to retain use of unlined industrial ponds 3, 4, 5, 6, 7, and 8 for non-contact wastewater and pond # 7 for surface runoff and to construct two lined ponds for contact waste water. This Modified Discharge Plan was approved by NMOCD in September 1994, and has been fully implemented.

A separate major modification to the Discharge Plan (GW-71) was also requested October 23, 1995 and approved December 21, 1995. This major modification was to build a Cryogenic Plant in two Phases to replace lean oil absorption plants, the "A" Gasoline Plant and the "B" Gasoline Plant. Both Phases of the Cryogenic Plant were completed and placed in service in 1996. The "A" Gasoline Plant was retired, and the "B" Gasoline Plant is being retained as a back up facility should the Cryogenic Plant incur a prolonged outage. Figures 2 and 3 have been included to show the updated site plan.

A minor modification to the Discharge Plan (GW-71) was approved August 14, 1996 to install an above ground 100 Bbl steel lubricating oil storage tank to serve the "Bisti 8" compressor. The tank was placed on an impermeable pad and was bermed to contain more than 133 Bbls.

Also, the following pits and ponds, which are shown on Figure 2, have been closed:

- Solid waste pits (Domestic Ponds #1, #2 and #3), as approved November 22, 1994.
- Flare Pit and Industrial Ponds #1 and #2, as approved November 17, 1995.

# VI. SOURCES, QUANTITIES & QUALITY OF EFFLUENT & WASTE SOLIDS

A.

SOURCE	<u>TYPE EFFLUENT</u>	<b>QUANTITY</b>
Plant inlet water filter	Filter backwash (non-contact water)	2,100 Bbls/Mo.
A,B, and C Cooling Towers	Non-contact blowdown water (including filter & exchanger backwash)	63,000 Bbls/Mo.
	Sulfuric acid treatment	700 gallons/Mo.
	Chorine dioxide	Small intermittent quantities
Cryo Plant Open Drain System		
Floor drains in comp. bldgs. From refrig. comp. From expander skids From starting air volume tk.	Lubricating oil Wash water Detergents Rain water	Small intermittent quantities
Cryo Plant Closed Drain System		
From regen. gas scrubber	Contact water from gas dehydration	2,600 Bbls/Mo
From inlet filter sep.	Contact water	400 Bbls/Mo.

From expander pkg. From oil sep. filter From drain sump pump From refrig. reclaimer From flash tank From flare sep. pump From porous media filters Hydrocarbon liquids Other contact water Liquids from open drain system

All other closed drain effluents are small intermittent quantities

# Cryo Plant Low Temp. Drain System

From H.P. cold sep.'s	Low temp. hydrocarbon liquids	Small intermittent quantities
From gas/gas exchangers	Low temp. amine solution	
From demethanizers		
From prod. pumps		
From cold side reboilers		
From refrig economizer		
From prod amine contactor		
From refrig surge tk.		
From deethanizer		
From exp/compr. pkg.		
From refrig suction scrubber		
From amine coalescer		
From product treater		
From product booster pumps		
From non-condensable trap		
Cryo Plant MDEA Drain System		

# <u>C</u>

From amine relief valves From amine charcoal filter From lean/rich amine exchange From amine filter From amine still reboiler From amine booster pumps From amine still From product amine contactor From amine still reflux pumps From flash tank From amine still reflux accumul	Plant amine streams (closed loop system with make up r for minor losses)	Small intermittent quantities
Utility Boiler	Boiler blowdown (non-contact water)	8,500 Bbls/Mo.
Demineralizer	Filter backwash (non-contact water) & regeneration brine	
Turbine inlet air washers	Blowdown (non-contact water)	
Pipeline drip tanks	Contact water	4,200 Bbls/Mo.
Engine Cooling Water	Closed loop through cooling fin fans	
Domestic sewage systems (septic tank systems)	Domestic sewage with no commingling with other effluent streams	Solids removed once / year
Engine O & M	Waste lubrication and motor oil	As needed

Other plant hydrocarbon sources	Waste and slop oil	Variable with operations		
Used filters and filter media	Plant inlet water filter media Amine filters Solids from gas inlet filter sep.	As needed		
	Gas inlet porous media filters Mole sieve dust filter solids Air dryer coalescing filters Power gas coalescing filters			
	Fuel gas coalescing filters Product filters Air filters Glycol filters			
Solids and sludges from tanks Cooling tower basins Waste heat boiler	Solids sediment Sludge from cleaning	Clean out 1/yr		
Cleaning operations	Solvents Degreasers	As needed		
Wash Rack (only drums are washed on site)	Condensate and effluent from from cleaning drums	As needed		
Additional misc. Chaco Plant lube oil and process drains (for detailed list see Dwg. CH-1- P115 through P119 under Tab B)	Hydrocarbon liquids Contact water	Small intermittent quantities (All drain sources from the "A" Gasoline Plant have been retired and all drain sources from the "B" Gasoline Plant are inactive.)		

# **B. QUALITY CHARACTERISTICS**

The most recent analyses on the following effluents is attached under Tab A. Material Safety Data Sheets are also included under Tab A for the major chemicals used at the plant.

<u>EFFLUENT</u>	SAMPLE METHOD & LOCATION	SAMPLING FREQUENC	<u>Y</u>
Self-contained commingled contact water from above drain systems	Inlet line to the <u>lined</u> evaporation ponds	None subsequent to 10/13/95	5 letter
Self-contained, commingled non-contact water streams	20" discharge line to unlined ponds	Annually (See Tab A)	
Ground water monitoring wells MW-1 & MW-8	Grab sample from well	Semi-annually (See Tab A)	)
MW-2, MW-3, MW-4 MW-5, MW-6, MW-7	Grab sample from well	Annually (See Tab A)	)
Used porous media filters Amine treater coalescer filter		Characterized 1996	
Sludge Cooling tower sludge Waste heat boiler sludge	Cooling tower basin on shutdown Mud drum on shutdown	Characterized 1995 having a RCRA regulated component	no ts

A further description of the commingling of some of the above streams is provided in the following section.

Variations in production rates impact water treatment and contact wastewater streams, as well as boiler steam generation. Additionally, seasonal variations impact cooling water, and oil cooling and jacket waters and wastewater production. Given that production rates can vary from 80 to 600 MMSCFD, or by as much as 7.5 times, wastewater flow can be expected to vary similarly. This variation in flow does not, however, correlate directly with a variation in wastewater quality. Production rates can vary significantly without significant quality variations.

Wastewater quality is dependent more upon the liquids contained in the produced gases coming into the plant than on production rate. Field liquids contained in the inlet gas can contain slugs of produced water high in TDS or hydrocarbons, or both. These waters can and do impact inlet separator and pipeline drip tank effluent rates and quality that commingle with the plant drain effluents.

Occasional plant process upsets can cause elevated levels of some constituents in various effluent streams within, the plant, which can impact wastewater quality in the classifiers and plant disposal streams for short periods of time. Drains from individual plant sources, however, are commingled with many different effluent streams in the plant drain systems, and the total commingled drain flow can often significantly mitigate the quality variations that can occur at individual plant sources.

# VII. TRANSFER & STORAGE OF PROCESS FLUIDS & EFFLUENTS

A., B., & C.

# COMMINGLED CONTACT WATER AND HYDROCARBON LIQUID DRAINS

All of the liquids from the Cryogenic (Cryo) Plant Open Drain System flow by gravity through buried 2"-3" carbon steel lines into an atmospheric pressure, below grade, 20 bbl, double walled carbon steel tank. The liquids are then pumped from this tank into the Cryo Plant Closed Drain System. A schematic of the below grade open drain tank and the equipment it services is provided under Tab B on Dwg. 2CH-8-P423 Rev 7.

The liquids from the Cryo Plant Open Drain System are commingled with the effluents from the Cryo Plant Closed Drain System. All lines in the Cryo Plant Closed Drain System are above ground 1"-4" carbon steel lines, and appropriate lines are electrically heat traced. This system flows to a knock out (K.O.) drum, and the liquids from the K.O. Drum flow by level control into the Chaco Plant Lube Oil Drain System which was replaced in 1993. A schematic of the K.O. Drum and the streams that it serves is provided under Tab B on Dwg. 2CH-8-P434 Rev 8.

A schematic of the Chaco Plant Lube Oil Drain System, including the Cryo Plant Drain connection and the pipeline drip tank drain connection, is shown under Tab B on Dwg. CH-1-P96 Rev 2. The same drawing also shows a separate Chaco Plant Process Area Drain System, which was also replaced in 1993. The replaced Chaco Plant Lube Oil & Process Area Drain Systems are both underground pipeline systems constructed of 2.375" OD 0.218" wt Grade B seamless pipe with fusion bond coating and 4.5-8.625" 0.188" wt X42 ERW pipe with fusion bond coating. Short segments of chemical drain lines, however, are 3" and 4" PVC. All of the drain services for the Chaco Plant Lube Oil & Process Area Drain Systems are provided under Tab B on:

Dwg. CH-1-P115 Rev 2 Dwg. CH-1-P116 Rev 2 Dwg. CH-1-P117 Rev 1 Dwg. CH-1-P118 Rev 1 Dwg. CH-1-P119 Rev 2

All of the commingled effluent streams from the Chaco Plant Lube Oil Drain System flow through a below grade, double walled heavy oil / water classifier, and all of the commingled effluent streams from the Chaco Plant Process Area Drain System flow through a below grade, double walled light oil / water classifier. The separated oil is piped to an above ground slop oil tank where it is sold and trucked off site for refining. The separated water from both classifiers is piped to a third below grade, double walled tank and then to an above ground skimmer tank. The oil fraction from the skimmer tank is piped to the above ground slop oil tank, and the contact water is piped to two double lined evaporating ponds with leak detection wells, which are monitored periodically. The top liner is a 60 mil HDPE (see Dwgs 2CH-1-P108 and 2CH-1-P109 under Tab B for more details on the lined ponds). Both lined ponds are equipped with pumps and an air compressor for above surface sprinkling and underwater aeration, respectively.

# CRYOGENIC PLANT SEGREGATED LOW TEMPERATURE DRAIN SYSTEM

All of the fluids from the *Cryo Plant Low Temperature Drain System* flow through 1"-3" stainless steel lines to a low temperature drain separator vessel where the fluids are electrically heated with a closed bayonet style heater that is filled with a glycol/water mixture. The heated liquid and vapor process phases are piped from this separator to the plant flare. The separator vessel is designed for a maximum allowable working pressure of 75 PSIG. A schematic of the low temperature drain system is provided under Tab B on Dwg. 2CH-8-P433 Rev 8.

# CRYOGENIC PLANT SEGREGATED MDEA DRAIN SYSTEM

The Cryo Plant also has a separate isolated MDEA Drain System that serves the MDEA product treating system. MDEA is collected in a below grade, 20 bbl, double walled carbon steel tank that has a maximum allowable working pressure of 10 PSIG. The MDEA drain lines are 1"-3" underground carbon steel lines sloped toward the tank. The MDEA is pumped back to the process from the double walled tank through electrically heat traced aboveground lines. The tank, however, also has a truck pump out connection for possible removal of liquids from the drain system. A schematic of this system is provided under Tab B on Dwg. 2CH-8-P427 Rev 8.

#### WASH RACK

Drums are steam-cleaned on a small bermed pad within the fenced oil / water classifier yard west of the product tank battery (see Dwg. CH-1-P96 Rev 2 under Tab B). Wastewater from this operation is piped to the heavy oil / water classifier.

# **OIL DRUM STORAGE & CHEMICAL STORAGE**

Oil drums and chemical drums are stored on separate small bermed pads west of the oil / water classifier yard (see Dwg. CH-1-P96 Rev 2 under Tab B). The drain for the oil drum storage pad is piped to the light oil / water classifier and the drain for the chemical storage pad is piped to the heavy oil / water classifier.

#### **GROUND FLARE SYSTEM**

The Chaco Plant has a ground flare system on the north side of the plant that services all of the flare lines outside of the Cryo Plant. This flare system is shown on Dwg. 2CH-1-P70 under Tab B. Sour water from this system is pumped from a flare K. O. drum to the lined evaporating ponds (see Dwg. 2CH-1-P109 under Tab B) through HDPE and PVC lines.

# NON-CONTACT PLANT WASTE WATER STREAMS

All of the non-contact plant waste water streams are piped underground directly to unlined evaporating ponds in the northwest area of the plant. The non-contact water is first piped to pond #3, which is connected to ponds #4-8 (all unlined). Pond #3 is equipped with a submersible pump to enhance evaporation by surface sprinkling. Pond #8 is to be used only for emergency overflow during winter conditions when pond water evaporation is at a minimum and other ponds are reaching capacity. Pond #8 is also to be drained as soon as feasible, based on evaporation of the other ponds.

The non-contact waste water sources that discharge to Pond #3 are:

- Cooling tower blowdown and backwash water
- Plant inlet water filter backwash water
- Utility boiler blowdown water
- Demineralizer regeneration and backwash water
- Turbine inlet air washer blowdown water

Cooling tower blowdown is the largest non-contact water effluent stream. Cooling tower water is batch treated with chlorine dioxide approximately once per week from a chemical truck. The cooling tower water is also treated with sulfuric acid on a continual basis on pH control. Sulfuric acid is stored in 500 gallon bermed saddle tanks.

# **D. DESIGN REQUIREMENTS**

Above ground storage tanks, chemical and drum storage areas, below grade storage tanks, and lined surface impoundment's at the Chaco Plant meet OCD design requirements.

# E. UNDERGROUND PIPELINES

Diameter and pipe specifications on all underground process and wastewater pipelines are indicated on plant piping drawings. The Chaco Plant underground lube oil drain piping and process area drain piping were replaced and pressure tested in the fourth quarter of 1993 and the first quarter of 1994. All underground wastewater pipelines in the Cryogenic Plant were completed and pressure tests were completed in 1996.

One of the conditions in the December 21, 1995 approval for the Discharge Plan (GW-71) Major Modification for installing the Cryogenic Plant states that all discharge plan facilities are required to pressure test all underground (drain) piping at the time of discharge plan renewal. Since all of the operating drain systems at Chaco are relatively new (installed in 1994 and 1996) and were pressure tested before being placed in service, EPFS requests that all of the drains not be retested at this time but be retested together prior to the next discharge plan renewal and during a scheduled maintenance shutdown. All of the wastewater drain lines at Chaco are tied together. Pressure testing these systems would disrupt plant operations unless the testing is scheduled with a planned maintenance shutdown.

# F. PROPOSED MODIFICATIONS FOR TRANSFER AND STORAGE SYSTEMS

A written notification to OCD (dated February 27, 1996) concerning a kerosene spill in the "B" Gasoline Plant addressed plans to floor and berm the affected area. However, since the B Gasoline Plant has been taken out of service and may never be put back into service, this flooring and berming has been postponed until a decision is made to recommission the B Gasoline Plant.

# VIII. EFFLUENT DISPOSAL

# A. ON-SITE OPERATIONS

<b>Effluent</b>	Location	Type of Disposal	Description
Non-contact water		Unlined evaporation ponds	Interconnected Ponds, #3-8 Total pond area = 750,000 sq ft
Contact water		Two lined ponds Installed 1994	Each pond is approximately 1 acre Refer to Dwgs 2CH-1-P108&P109

Domestic sewage (not commingled with other effluents)	1957 systems NW of A Cooling Tower, other is E of Cryo Office	4 leach fields on separate septic systems	3- 1,000 gal systems built in 1957; 1,000 gal for Cryo Plant in 1996 Solids removed to Garcia's Septic Service of Farmington, NM
Cooling tower basin sludge		Spread on ground	Non hazardous waste
Storm water	Wastewater Plan Piping Layout Plate 3-2	Channeled to unlined pond #7 and an earthen berm area SW of plant	Rainwater averages < 10" / yr Most rainwater seeps into the soil
Asbestos	SW corner of plant	Fenced burial site	Burial site is now inactive.
Water filtration media		Spread on ground	Non-exempt / non-hazardous filter media (sand, gravel, carbon)

The lined ponds have leak detection wells to monitor that the contact water in the ponds is not leaking undetected into the ground.

Historically, analyses of grab samples of the perched aquifer from shallow on-site monitoring wells show that the non-contact water that percolates into the ground through the unlined ponds and other minor sources such as rainwater and moisture from cooling tower basin sludge does not contaminate the perched aquifer. Six monitoring wells (MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7) are analyzed annually. Also, the non-contact waste water line that charges the unlined ponds is analyzed annually. Two monitoring wells (MW-1 and MW-8) are sampled twice each year to monitor the perched aquifer down gradient from a capped soil remediation site. All 8 monitoring wells are located in the western portion of the Plant near the ponds (See Figure 2). The line to the unlined ponds and the six monitoring wells that are sampled annually are analyzed for WQCC metals, major cations/anions, and TDS, and MW-1 and MW-8 are analyzed for BTEX, PAH, Cd, Cr, and Hg.

# **B. OFF-SITE DISPOSAL**

All liquids from this site will be handled in accordance with OCD and NMED regulations.

All effluents will be recycled if possible. Effluents which cannot be recycled, such as contaminated soil, will be disposed in accordance with OCD and NMED regulations.

Conditional approval has been granted to provide non-contact waste water from the Chaco Plant to 1) local entities wanting to use the water for drilling oil and / or natural gas wells, and 2) the San Juan County Road Department for using water on dirt roads for dust suppression.

The contents of the waste oil tank are removed and refined by Hay Hot Oil Company, P.O. Box 11, Cortez, Co, 81321. Other options for disposal would be to truck the oil to company operated heater treater facilities or to pay D&D or Mesa Oil to pick up the oil.

Non-exempt hydrocarbon contaminated soils, which may occur from maintenance activities and/or plant upsets, are temporarily stockpiled on plastic near the oil / water classifiers until the soils are properly manifested and trucked to an approved landfarm, such as the Envirotech Soil Remediation Facility at Hilltop, New Mexico. Address: Envirotech Inc., 5796 US Hwy 64, Farmington, NM



All non-hazardous solid waste from the Chaco Plant is drained completely of free liquids in two special waste dumpsters prior to disposal. The waste is then trucked to Crouch Mesa Landfill, which is operated by Waste Management, Inc. at #78, Co. Road 3140, Aztec, NM. Examples of such wastes are:

Oil filters, oily rags, and oil absorbents Neoprene "Pigs" and Foam Rubber "Pigs" Non-friable asbestos Glycol and amine filters Fuel gas filters and natural gas liquids (product) filters Instrument air dryer and powergas coalescing filters Engine inlet air filters Incidental wastes (e.g., empty paint cans, paint brushes, wax applicators, plastic boots, plastic gloves, plastic drop cloth, oily hoses, oily mops, empty non-hazardous aerosol spray cans, and fluorescent light bulbs)

Empty drums that are not returnable to vendors are steam-cleaned at the Plant drum rack and sold for scrap to Valley Scrap Metal, Kirtland, NM.

Used batteries are exchanged for new batteries. When an exchange is not possible, the batteries are sent to the Farmington warehouse for recycling.

A few electronic circuit boards are generated each year at Chaco. These boards are sent to EPNG's main office. The boards are then sold to a recycler.

Oily rags and mops are picked up and cleaned by American Linen Supply Company, P O Box 36, Albuquerque New Mexico 87103 and reused until no longer reusable.

Friable asbestos is abated by certified Contractor's, such as Insulated Contractors Unlimited, 2505 E. Main St., Farmington, NM or Envirotech Inc., 5796 US Hwy 64, Farmington, NM. The Contractors dispose of the asbestos at the Keers Landfill in Mountainair, NM or other certified asbestos landfill. There is also a fenced inactive asbestos burial site in the southwest corner of the Plant.

Septic tank solids are pumped out as needed and disposed by Garcia's Septic Service, 115 Quince St., Farmington, NM.

# C. PROPOSED MODIFICATIONS

Since direct monitoring of the perched aquifer from monitoring wells has demonstrated that the ground water meets the WQCC Standards of Section 3-103 and contains no toxic pollutants as defined in Section 1-101.ZZ, no further modifications are proposed at this time to protect the ground water.

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# IX. INSPECTION, MAINTENANCE AND REPORTING

# A. ROUTINE INSPECTIONS

The following sumps are inspected for leaks annually during the Plant maintenance shutdown.

- A Gas Compressor Sump #1
- A Gas Compressor Sump #2
- B Gas Compressor Sump
- Process Area Oil Classifier
- Lube Oil Drain Oil Classifier
- Water Skimmer

- Cylindrical metal sump with leak detection
- Cylindrical metal sump with leak detection
  - Cylindrical metal sump
- Below grade double wall with leak detection
- Below grade double wall with leak detection
  - Below grade double wall with leak detection

A written sump inspection report is sent to OCD annually on all of the above sumps. This report documents whether each sump passes or fails the leak test. If a sump fails the leak test, verbal and written notification of the leak will be made to OCD in accordance with Rule 116, and action will be taken to repair the leak.

The concrete basins under the A, B, and C Cooling Towers are emptied, cleaned and inspected when the plant is down for extended maintenance. Records of this inspection are maintained by EPFS along with the maintenance shutdown file.

# **B. CONTAINMENT OF STORM WATER**

Storm water is collected by a series of swales and concrete lined channels which direct discharge in two directions. One channel directs sheet flow southwest to swales that flank the plant site and are contained by an earthen berm that prevents flow off-site. The second concrete channel is located west of the gasoline processing area and directs storm water discharge toward Pond #7, which was originally used for industrial wastewater overflow from Ponds #1-4. Pond #7 has sufficient capacity to contain the storm water inflow. The rain fall in this area averages less than 10 inches per year, and most of the rainwater seeps into the soil.

# X. SPILL/LEAK PREVENTION AND REPORTING (CONTINGENCY PLANS)

The Chaco Plant is operated in a manner to prevent and mitigate any unplanned releases to the environment. Plant process and storage units are regularly observed by a number of personnel during normal operations, and any evidence or sign of spills/leaks are routinely reported to supervisory personnel so that repairs or clean up can be promptly initiated. Regularly scheduled maintenance procedures conducted at the Chaco Plant also help to assure that equipment remains functional and that the possibility of spills or leaks is minimized.

The majority of process and storage units at the Chaco Plant are bermed or curbed and have underdrains or natural diversions which will direct any unplanned spills or releases to existing waste management areas.

Non-process chemicals are used in relatively small quantities at the plant and are managed in a manner to prevent discharges to the environment. Any chemical spills which might occur would be immediately contained and disposed of according to proper guidelines.

Chemicals such as cleaning solvents are collected and recycled. EPNG currently uses a non-halogenated, non-hazardous solvent, Varsol, for degreasing operations. The spent solvent which contains various aromatic compounds is combined with other hydrocarbon fractions and is recycled.

Leaks, spills, and drips will be handled in accordance with OCD Rule 116 as follows:

- Small spills will be absorbed with soil and shoveled into drums for off-site disposal. If the soil is an "exempt" waste, the soil will be disposed at Envirotech, Tierra or another OCD approved landfarm facility. If the soil is an ""nonexempt" waste, the soil will be characterized and disposed according to the analytical profile.
- Large spills will be contained with temporary berms. Free liquids will pumped out by a vacuum truck. Any hydrocarbon liquids will be recycled. Any contaminated soil will be disposed as discussed in the paragraph above.
- Verbal and written notification of leaks or spills will be made to OCD in accordance with Rule 116.
- All areas identified during operation as susceptible to leaks or spills will be bermed or otherwise contained to prevent the discharge of effluents.

# **XI. SITE CHARACTERISTICS**

A complete discussion of the hydrogeological characteristics at and near the site was provided in the discharge plan approved in May 1992. Since that information is unchanged, it is incorporated into this plan by reference.



▶ -

N. IN STREET







)		REFERENCE DRAWINGS	1			REVISIONS					PF	RINT R
	DWG. NO.	TITLE	NO.	DATE	BY	DESCRIPTION	<b>W.O</b> .	APP.	PRT.	SEP.	DATE	
			A	1/30/95	D.H.	ISSUED FOR APPROVAL	1					
			0	2/22/95	D.H.	ISSUED FOR CONSTRUCTION	1	1				
· · · · · · · · · · · · · · · · · · ·			1	7/6/95	LS	REVISED AS NOTED		1				
			2	8/9/95	LS	PEVISED PER CLIENT REQUEST	1	1				
			3	8/24/95	LS	REVISED AS NOTED	1					
			4	9/14/95	LS	REVISED AS NOTED		1				
			5	7/8/96	XX	AS-BUILT	1	1				
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# Chaco Plant Groundwater Monitoring Well Results 1996 All Results Expressed as Micrograms/Liter (ppb)

Monitoring Well 1	No Liquids

Monitoring Well 8	3/12/96	5/29/96	7/2/96	9/9/96	11/1/96
Benzene	10.0	6.62	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes	<3.0	<3.0	<3.0	<3.0	<3.0
Cadmium	<0.0005	NA <sub>1</sub>	NA	<0.0002	NA
Chromium	0.022	NA	NA	<.0057	NA
Mercury	< 0.0001	NA	NA	<0.002	NA
Total Naphthalenes	75	NA	NA	ND <sub>2</sub>	NA
Total Benzopyrenes	<0.3	NA	NA	ND	NA

1 - Not Analyzed

2 - None Detected



# **Chaco Plant Groundwater Monitoring Well Results 1996**

All Chemical Results Expressed as Milligrams/Liter (ppm) pH Expressed in Standard Units (0 - 14 Scale) Conductivity Expressed as Micromhos/Centimeter

All samples listed on this table were collected on June 24, 1996

Test	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Non-Contact Wastewater
pН	7.7	7.7	7.2	7.5	8.2	7.4	8.2
Alkalinity - CO <sub>3</sub>	0.0	0.0	0.0	0,0	0.0	0.0	0.0
Alkalinity - HCO <sub>3</sub>	426	670	559	374	399	329	118
Calcium	112	85	458	216	37	302	211
Magnesium	22.5	20.2	79.7	33.2	10.4	42.9	40.8
Total Hardness	372	296	1,472	676	135	931	695
Chloride	162	41.6	464	18.9	139	295	60
Sulfate	714	532	2,654	670	1,216	1,336	740
Fluoride	1.8	1.0	1.7	0.7	2.3	2.0	2.1
Nitrate	<0.1	<0.5	<1.6	<0.1	<1.0	<0.6	0.5
Phosphate	<0.1	<0.5	<1.6	<0.1	<1.0	<0.6	4.0
Potassium	1.1	0.9	8.3	1,1	0.7	3.6	25.9
Sodium	493	443	1,249	173	850	547	128
TDS	1,772	1,464	5,430	1,332	2,440	2,860	1,454
Conductivity	2,500	2,170	6,610	1,709	3,550	3,550	1,744
Cadmium	0.0008	<0.0005	0.0011	<0.0005	0.0009	0.0007	< 0.0005
Chromium	0.008	).002	0.003	0.004	0.007	0.002	0.132
Mercury	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	< 0.0024

# MATERIAL SAFETY DATA SHEET

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

International Dioxcide, Inc., 136 Central Ave., Clark, NJ 07066 Manufacturer Phone: Day 908-499-9660 Night 401-738-6972 Chemtrec Emergency Phone: 800-424-9300 Effective Date: 12/27/91 MSDS #1004

#### WATER SOLUTION OF CHLORINE DIOXIDE

2. COMPOSITION/INFORMATION ON INGREDIENTS

(% CHEMICAL INGREDIENTS BY WT.)

Chlorine Dioxide

# CAS#10049-04-4

0.35%

(See Section 8 for exposure guidelines)

# 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

HUMAN THRESHOLD RESPONSE DATA:

ODOR THRESHOLD: The odor threshold for chlorine dioxide is approximately 1 ppm in air.

IRRITATION THRESHOLD: The irritation threshold is considered to be around 1 ppm in air.

IMMEDIATELY DANGEROUS TO LIFE OR HEALTH: The IDLH level is 10 ppm in air.

INHALATION:

ACUTE: Inhalation of the liquid may produce a slight transient irritation with no permanent effect expected.

CHRONIC: Inhalation is not reported or expected to cause any effect based on the dilute nature of the product.

# SKIN:

ACUTE: Exposure is not reported or known to cause any effects at this dilute concentration.

CHRONIC: Exposure is not reported or known to cause any effects at this dilute concentration.

PAGE 2 OF 6

EYE: Exposure may cause a slight transient irritation to the eye with no permanent effect.

INGESTION:

ACUTE: Ingestions of high concentrations may result in hematologic (blood) effects, most likely in red blood cells.

Ingestion is not reported or known to cause effects in CHRONIC: the general population. Concentrations greater than 100 ppm in water should be avoided by those individuals with anemia or G-6 PD deficiency. Levels of 5 ppm or less have been considered safe, although the EPA advises no greater than 1 ppm total.

# MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Ingestion by individuals with anemia or G-6 PD deficiency should be avoided.

INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY: None known or reported.

ACUTE TOXICITY:

None available at this concentration. As a gas for the concentrated solution the following acute toxicology data is available. Oral LD 50:

292 mg/kg (rat)

# ACUTE TARGET ORGAN EFFECTS:

The acute effects of chlorine dioxide are related to its oxidizi: and corrosive potential. These effects cannot be observed at the dilution concentration.

# CHRONIC TARGET ORGAN EFFECTS:

Repeated ingestion of solutions of chlorine dioxide in laborator animals at concentrations of chlorine dioxide greater than 100 p in water have caused minor effects on the hematologic (blood). system, primarily affecting red blood cells. At concentrations lower than 100 ppm these effects have not been observed in laboratory animals. In addition human clinical studies have not found significant health effects from repeated exposures to up t 5 ppm chlorine dioxide in water.

# DEVELOPMENTAL AND REPRODUCTIVE TOXICITY:

Several studies evaluating the potential for chlorine dioxide to cause reproductive or developmental toxicity in laboratory anima have demonstrated that chlorine dioxide is not a developmental : is it a reproductive toxin.

#### CARCINOGENICITY:

This product is not known or reported to be carcinogenic by any reference source including, IARC, OSHA, NTP or EPA.

# MUTAGENICITY:

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The weight of evidence of a battery of mutagenicity studies performed on sodium chlorite would indicate chlorine dioxide is not mutagenic.

# MSDS #1004 WATER SOLUTION OF CHLORINE DIOXIDE

PAGE 3 OF 6

# 4.<sup>21</sup> FIRST AID MEASURES

EYES: Irrigate with water for at least 15 minutes; call a physician if irritation persists.

SKIN: Wash off in flowing water or shower.

INHALATION: Remove the worker to fresh air. If not breathing, give mouth to mouth resuscitation. If breathing is difficult, give oxygen. Call a physician.

INGESTION BY MOUTH: Give large amounts of water and contact a physician.

5. FIRE-FIGHTING MEASURES

HMIS RATINGS:HEALTH 1.0FLAMMABILITY 0REACTIVITY 0NFPA RATINGS:NoneFLASH POINT:Not applicable.

EXPLOSION LIMITS: Liquid is not explosive unless gas is evolved above 10% conc. of Cl0, gas in air.

AUTO IGNITION TEMPERATURE: Not applicable.

LIBERATION OF Cl0, GAS: Flush area with large amounts of air to keep the concentration below 10%, the explosive limit in air. Raising the solution above room temperature tends to lead to gas evolution.

EXTINGUISHING MEDIA: Water solution is not flammable. Water or water fog for surrounding materials.

EMERGENCY HANDLING: Isolate in an open, well ventilated area. Flood with large volumes of water. Can be stabilized by addition of hydrogen peroxide and sodium carbonate.

FIRE FIGHTING EQUIPMENT: If any free Cl0, is present, wear full gear including self contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

LARGE SPILLS: Evacuate area, contain liquid, transfer to closed polyethylene drums. Keep out of water supply. Flush area with water after liquid is removed.

SMALL SPILLS: Flush with water to dilute and sewer. Do not allow contact with rags, paper or other oxidizable materials.

REPORTABLE QUANTITY: Not applicable.

# 7. HANDLING & STORAGE

"" Usually used as made. Gas tends to leave the solution on standing. Store in a cool area in a closed container. Avoid temperatures

PAGE 4 OF 6 -

above 77°F and freezing conditions and exposure to sunlight. Store away from any metals or reducing agents.

# 8. EXPOSURE CONTROL/PERSONAL PROTECTION

SKIN PROTECTION: Clean body covering protection plus rubber or neoprene work gloves. If the solution is spilled on clothing, then rinse the contaminated area fully to remove any solution. Contamination of cloth with ClO, requires washing to remove solution.

EYE PROTECTION: Use safety glasses. Where contact with appreciable quantities of this material is possible, use safety goggles.

EXPOSURE GUIDELINES:

	<u>os</u>	HA	ACGI	H	
	TWA	STEL	TLV	STEL	UNITS
CHLORINE DIOXIDE	0.1	0.3	0.1	0.3	PPM

ENGINEERING CONTROLS: If any free Cl0, is present in the system, control airborne concentrations below 0.1 ppm. Local exhaust ventilation may be required for some operations.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow-green solution. ODOR: Chlorine-like odor. BOILING POINT: About 212<sup>o</sup>F VAPOR PRESSURE: Similar to water. SOLUBILITY IN WATER: Completely soluble in all proportions. SPECIFIC GRAVITY: 1.0 pH: 2.7 % VOLATILES: 100

# 10. STABILITY AND REACTIVITY

STABILITY: Weak oxidizing agent. Contamination with other materials such as acids, chlorine, organic chemicals, etc., may cause a chemical reaction, resulting in evolution of chlorine dioxide gases and heat. Explosion and/or fire could result. Chlorine dioxide is a poisonous explosive gas. Keep all chemical and foreign materials away from this solution. Avoid temperatures above ambient and ultraviolet light.

INCOMPATIBILITY: Chlorine dioxide is a strong oxidizing agent and should be kept away from organic materials and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine dioxide - Clo,

HAZARDOUS POLYMERIZATION: Will not occur.

EXPLOSION HAZARDS: A concentration of chlorine dioxide above 10% air is explosive, especially at elevated temperatures. Under room temperature conditions, this dilute water solution is not hazardom

WATER SOLUTION OF CHLORINE DIOXIDE PAGE 5'OF 6 MSDS #/004

# 1. DISPOSAL CONSIDERATIONS

ENVIRONMENTAL HAZARD: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public. waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DE PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

WASTE DISPOSAL: If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001, D002.

# AOUATIC TOXICOLOGY:

LC 50 (96 hours) juvenile fathead minnows: 0.02 mg/l LC 50 (96 hours) adult fathead minnows: 0.17 mg/l LC 50 (96 hours) young of the year bluegills: 0.15 mg/l

# TRANSPORT INFORMATION

Clo, in water solution is usually generated on-site and no transportation is involved. DOT forbids shipment of this material, except under special conditions.

# 13. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT: This substance is listed on the Toxic Substances Control Act inventory.

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45: None established at these concentrations.

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Chlorine Dioxide is considered a hazardous ingredient.

CERCLA/SUPERFUND, 40 CFR 117,302: Chlorine dioxide is not listed under CERCLA.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definitions, to meet the following categories:

HEALTH:	None
PHYSICAL:	None

# SARA 313 INFORMATION:

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This product contains the following substances subject to the superfund reporting requirements of Section 313 of Title III of the Superfund Estamendments and Reauthorization Act of 1986 and 40 CFR Part 372: <u>ELECTION CASE NUMBER</u> <u>CONCENTRATION</u> TOTER FIRST CONCENTRATION Chlorine Dioxide 10049-04-4 0.02 - 0.35 wt %

CALIFORNIA PROPOSITION 65: This product does not contain a chemica known to the State of California to cause cancer or reproductive effects:

DISCLAIMER - This information herein is given in good faith but no warranty, expressed or implied, is made.

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# MATERIAL SAFETY DATA SHEET

# CORPORATE RESEARCH & DEVELOPMENT

SCHENECTADY, N.Y.



SODIUM EYDROXIDE

3

No.

Revision A

Date September 1

# SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: SODIUM HYDROXIDE

OTHER DESIGNATIONS: Caustic Soda, Soda Lye, NaOH, GE Material D4B4, ASTM D456, DESCRIPTION: This material is an anhydrous solid (flake, pellet, etc.) CAS# 001 310 MANUFACTURER: Available from many suppliers.

SECTION II. INGREDIENTS AND HAZARDS	*	HAZARD DAT
Typical content: Sodium Hydroxide (NaOH)	96	Ceiling Limit 2 mg/m <sup>3</sup>
Impurities: Sodium Carbonate (Na2CO3) Sodium Chloride (NaCl) Sodium Sulfate (Na2SO4) Potassium, Calcium and Magnesium Silicon Dioxide (SiO <sub>2</sub> ) Other metals (total)	0.5-2.5 0.01-2.1 0.02-0.1 0.1 0.03 0.01	
SECTION III. PHYSICAL DATA	•	
Boiling point, 1 atm, deg C — 1388 Vapor pres Specific gravity (20/4 C) — 2.13 Volatiles — non-volatile Viscosity at room Water solu temperature Melting point, deg C — 318 Appearance & odor: White or off-white, hygroscopic solid;	sure, mm H at 350 C, bility, Z, no odor.	g @ 1000 C @ 1200 C cps @ 0 C @ 100 C
SECTION IV, FIRE AND EXPLOSION DATA	· · ·	LOWER U
Flash Point and Method   Autoignition Tero.   Flammabili	ty Limits	In Air
None - not combustible N/A N/A		N/A
Although it is not combustible, it can be hazardous if preficilowing should be known for fire fighting: (1) It can (m.p. 318 C). (2) Hot or molten material can react viol (3) Can react with certain metals, such as aluminum, to (See also Reactivity Data, Section V)	sent in a melt and ently vith generate f	fire area. The flow when heated water (splatter lammable hydroge
SECTION V. REACTIVITY DATA		
It is a stable material under normal conditions of storage hazardous decomposition products. Slowly it can pick up with carbon dioxide from the air to form sodium carbonar Sodium hydroxide can react violently with strong acids and expecially with nitrocarbons and chlorocarbons. (Will a form spontaneously flammable dichloroacetylene.) It gen solves in water.	. No self moisture e. with many eact with erates muc	-polymerization. from the air and y organic chemics trichloroethyler th heat when it c

Avoid contact with leather and wool and with aluminum, tin, zinc, and alloys which contact metals.

SECTION VI. HEALTH HAZARD INFORMATION	TLV (Ceiling Value) 2 =3/=3
Socium hydroxide is a strong alkali and is dangerous destructive to all human tissue it contacts, produc duce severe or permanent injury. Dust or mist inhal tory tract. FIRST AID	when improperly handled. It can be ing severe burns. Eye contact can pro- lation can injure the entire respira-
utes, including under the eyellds and all surfaces. water after contact is extremely important if perms physician as soon as possible.	Speed in rinsing out the eyes with enent injury is to be evoided. Contact
Ingestion - Immediately dilute chemical by drinking I neutralize with dilute vinegar or fruit juice. Vom not induce it. Contact a physician promptly.	large amounts of water or tilk, then iting may occur spontaneously, but do
Skin contact - Wash contact area promptly with large acid, vinegar, can be used to neutralize.) Remove of shower. Frolong washing in serious cases until me hour or longer. Physician should see all cases othe of chin	quantities of water. (Dilute acetic contaminated clothing <u>under</u> the adical help arrives - even for an ar than minor exposures to small area
SECTION VII. SPILL, LEAK, AND DISPOSAL PR	OCEDURES
When solid sodium hydroxide is spilled in a dry condi- for recovery or disposal. (CAUTION! Avoid dusting. the disposal of the waste solid. (Delay in clean up from the atmosphere and tay increase the difficulti surfaces with water and neutralize with dilute acid final traces. (Sodium bicarbonate may also be used tinse with water.	Avoid contact with the skin.) Contro Avoid contact with the skin.) Contro may allow absorption of moisture les of clean up.) Flush contaminated 1, preferably acetic acid, to remove to partially neutralize.) Finally,
Disposal of waste is greatly dependent on local condi- plans should be made to meet legal and technical re- be deliberately discharged directly into sewers or neutral salts and dilute well with water.)	tions and requirements. Pre-emergen: equirements. Waste caustic should nev surface waters. (First, convert to
SECTION VIII. SPECIAL PROTECTION INFORMAT	ION
Provide adequate ventilation to meet TLV requirements conditions can exist. Use filter-type respirator f needed.	s, especially where dusting or mistin for mist and dust protection where
Use chemical safety goggles! A plastic face shield of Use rubber gloves, rubber apron or protective clothin vent contact with sodium hydroxide, especially when Eve wash fountains and safety showers must be immedia	an also be used. ag, rubber boots where needed to pre- a solutions are prepared. ately available!
· · ·	· · · · ·
	i
SECTION IX. SPECIAL PRECAUTIONS AND COMMEN	1TS
Workers should not be permitted to handle this materi with it without protective equipment.	al without proper training or to wo
Store in vell-sealed containers. Avoid handling condi	tions that zay lead to spills and
Wherever this material is stored, unloaded, handled o	r used abundant water (preferably
running water) should be available for emergency us Drains for storage or use areas for this material sho	e. uld have retention basins for pH ad
justment and dilution of spills and flushings befor his material is classified as a CORROSIVE by the Dep	e discharge.
justment and dilution of spills and flushings befor his material is classified as a CORROSIVE by the Dep the pellet form is probably the safest solid form for	e discharge. artment of Transportation.
justment and dilution of spills and flushings befor his material is classified as a CORROSIVE by the Dep ne pellet form is probably the safest solid form for handling and dispensing.	APPROVALS: MIS, CRD J, M, Vul- Industrial Hypigne 67
justzent and dilution of spills and flushings befor his material is classified as a CORROSIVE by the Dep ne pellet form is probably the safest solid form for handling and dispensing. Jusyments as to the suitobuilt of information herein for purchaser's purposes are necessarily purchaser t responsibility. Inverter, entrough reasonable care has been taken in the preparation of such information. General Electric Company estems to warrantee, more no representations are assumed for responsibility	APPROVALS: MIS, CRD J.M.Vull Industrial Hygiene Confur



# **PRODUCT BULLETIN**

# DESCRIPTION

UNICHEM 1705 is a scale and corrosion inhibitor for use in open recirculating cooling we systems. UNICHEM 1705 is a highly effective antiprecipitant for calcium phosphate, calci and magnesium carbonate and calcium sulfate. In addition, UNICHEM 1705 is an excell dispersant for particulates, such as mud, silt and biomass. UNICHEM 1705 is stable e under conditions of high temperature and pH. UNICHEM 1705 contains specific corros inhibitors for copper alloys.

UNICHEM 1705 is designed to be used in alkaline cooling water systems. UNICHEM 1 contains a small amount of ortho phosphate. This primarily provides a convenient way monitor the level of UNICHEM 1705 in the recirculating water.

# APPLICATION

UNICHEM 1705 should be injected continuously into the cooling water system at a 1 sufficient to maintain 80 to 120 ppm in the recirculating water. The rate of addition can controlled by maintaining an ortho phosphate residual of 3 to 4 ppm in the recirculating wat

# TYPICAL PROPERTIES

Appearance	Amber Clear Liquid
Density	10.5 lbs/gal
Freeze Point	25°F
Flash Point (TCC)	None

# HANDLING

UNICHEM 1705 is an alkaline compound. Avoid contact with eyes, skin, and clothing wearing the proper safety equipment including eye protection, rubber gloves, and protection in the contact of eye contact, flush thoroughly with water for at least fifteen minu. Consult a physician. For skin contact, rinse with copious quantities of water and wash v soap. Remove contaminated clothing and wash thoroughly. Seek medical attention if irritat persists. Avoid breathing vapors or fumes.

Refer to the material safety data sheet for more information regarding the safe use : handling of this product.

# PACKAGING

UNICHEM 1705 is available in 55 gallon drums or in bulk quantities.

MATERIAL SAFETY DATA SHEET DUBACH GAS COMPANY CLASOL 70 Pg 1 of 6 Rev. Date 01/28/93

Company	Name:	Dubach Gas Company
		P.O. Box 170
		Lisbon, LA 71048

Company Contact: Stanley H. "Fritz" Howes II Manager, Environmental Services

Phone Number: (318) 353-2283

Emergency Contact:INFOTRACEmergency Phone Number:(800) 535-5053

SECTION #1 - IDENTIFICATION

Product: CLASOL 70

Chemical Family:Petroleum hydrocarbonsSynonyms:CS 70

NFPA Hazard Rating	- Health:	0	Negligible
	- Fire:	2	Moderate
	- Reactivity:	0	Negligible
HMIS Hazard Rating	- Health:	1	Slight
	- Fire:	2	Moderate
	- Reactivity:	0	Negligible

Refer to DOT "1990 Emergency Response Guidebook", Guide No. 27 for emergency response information regarding this product.

SECTION #1B - SHIPPING INFORMATION

Proper DOT Shipping Name: Hazard Class: DOT Identification Number: DOT Shipping Label: PETROLEUM OIL, n.o.s. (Clasol 70, kerosene) 3 UN1270 FLAMMABLE LIQUID

Precautionary Label (OSHA)

# FLAMMABLE LIQUID

Prolonged exposure to high vapor concentrations or contact with product may irritate eyes and/or skin. prolonged exposure of high concentrations or ingestion may cause nausea or CNS depression.

Target Organs: Skin, Central Nervous System, Eyes, Lungs

# MATERIAL SAFETY DATA SHEET DUBACH GAS COMPANY CLASOL 70



# SECTION #2 - HAZARDOUS CONSTITUENTS

CAS # Chemical Name Percent of Mixture (Wt.)

N/A

# SECTION #3 - PHYSICAL DATA

Boiling Point:393 °F201 °CVapor Pressure:11.89 mm HgVapor Density (Air=1):6.30Specific Gravity:0.78350Solubility (H2O):Negligible

#### Appearance

whice and	OUOL
Water-white liquid	Mild petroleum odor

SECTION #4 - FIRE FIGHTING & EXPLOSION DATA

Flash Point: 166 °F 74 °C TCC

Lower Explosive Limit (%): 0.9

Fire and Explosion Hazards

Closed containers may explode if exposed to extreme heat.

Extinguishing Media

Use NFPA Class B extinguisher ( $CO_2$  or foam).

Special Fire Fighting Instructions

Move container from fire area, if safely feasible.

Apply cooling water to sides of containers that are exposed to flames until fire is well out. Stay away from ends of tanks.

If water is used, fog nozzles are preferred. Water spray may be ineffective on fire, but can protect fire fighters and cool closed containers.

Do not enter confined fire-space without full bunker gear (helmet w/face shield, bunker coats, gloves and rubber boots) and NIOSH approved positive-pressure, self-contained breathing apparatus (SCBA) when fighting this product fire.

# SECTION #5 - EXPOSURE EFFECTS and FIRST AID

Route of Exposure - Inhalation

Prolonged exposure to high vapor concentrations or product mist can cause irritation to the nose, throat and lungs. High vapor concentrations exhibit anesthetic characteristics and can cause headache, nausea, CNS depression and stupor.

First Aid - Inhalation

Remove victim to fresh air. If victim exhibits difficulty breathing administer oxygen. If breathing stops administer CPR and get immediate medical attention.

Route of Exposure - Skin

Prolonged product contact can cause primary irritation, defatting and/or dermatitis.

First Aid - Skin

Remove product-wetted, non-impervious clothing and shoes. Thoroughly wash exposed skin with soap and warm water.

Route of Exposure - Eyes

Exposure to high vapor concentrations or product mist can cause irritation, redness, tearing and/or blurred vision.

First Aid - Eyes

Flush eyes with large quantities of water for at least 15 minutes. Get immediate medical attention.

Route of Exposure - Ingestion

Swallowing can cause irritation of the stomach and intestines, nausea, vomiting, and diarrhea.

First Aid - Ingestion

# GET IMMEDIATE MEDICAL ATTENTION

Do NOT induce vomiting. Aspiration of vomitus can cause serious chemical and/or lipoidal pneumonitis, particularly in young children. Keep victim quiet and warm until aid arrives.

# Miscellaneous Toxicological Information

A poison by intravenous route.

#### SECTION #6 - REACTIVITY AND POLYMERIZATION

Stability: STABLE

Conditions to Avoid (Stability)

Isolate from oxidizers, extreme heat and open flame.

Incompatible Materials

Isolate from strong oxidizers such as permanganates, chromates, and peroxides.

Hazardous Decomposition Products

Carbon dioxide and carbon monoxide from combustion.

Conditions to Avoid (Polymerization)

N/A

Hazardous Polymerization: WILL NOT OCCUR

SECTION #7 - SPILL, LEAK, & DISPOSAL PROCEDURES

Steps to be Taken in The Event of Spills, Leaks, or Releases

Shut off ignition sources; no flares, smoking or flames in spill area. Stop leak if safely feasible.

Small quantities: Collect product using absorbent materials and place in proper containers as outlined below.

Large quantities: Dike area to contain product and to prevent migration offsite. Recover spilled liquid for reuse, if possible. Non-recoverable or reusable liquids, used absorbent materials, and contaminated soils should be collected and placed in a RCRA/DOT approved storage container for ignitable wastes.

Waste Disposal Methods

(cont.)

Waste materials should be treated as "D001" hazardous waste (ignitable) until a waste characterization is completed. Follow all local, state, and federal regulations for storage and disposal of this waste. Questions regarding regulations concerning waste characterization and proper disposal should be directed to the appropriate government agency.

SECTION #7 - SPILL, LEAK, & DISPOSAL PROCEDURES (continued)

# Other Environmental Information

Spilled/leaked product which reaches a ditch or other waterbody should be reported to the appropriate local, state, and federal agencies.

SARA Title III Notifications and Information

SARA Title III - Hazard Classes:

Acute Health Hazard Chronic Health Hazard Fire Hazard

SARA Title III - Section 313 Supplier Notification:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

CAS # Chemical Name Percent of Mixture (Vol.)

NONE

This information must be included on all MSDS's that are copied and distributed for this material.

SECTION #8 - SPECIAL PROTECTIVE MEASURES

#### Skin Protection

Wear gloves, sleeves, apron and footwear impervious to this product. Consult safety equipment supplier for available materials. Wash contaminated protective clothing before reuse.

#### Respiratory Protection

Use NIOSH approved organic vapor respirators for concentrations above 50 ppm. Emergency entry to confined space requires self-contained, positive pressure breathing apparatus (SCBA).

# SECTION #9 - SPECIAL PRECAUTIONS - STORAGE & HANDLING

#### Storage & Handling Conditions

Keep containers tightly closed.

Ground containers/vehicles when transferring product. Avoid free fall of liquid.

Empty containers are very hazardous! Do NOT flame cut, braze or weld. Continue all label precautions.

# DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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



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# Cl<u>aSol 70</u>

		Certificate	of Analy Specific	<u>sis</u> ations	
I			Min.	Max.	<u>Analysis</u>
	API Gravity @ 60 <sup>0</sup> F		47.0	51.0	48.1
	Specific Gravity @	60 F	.7949	.7796	.7879
	Pounds/Gallon				6.562
	Color (Saybolt)		+25	+30	+26
	Flash Point (TCC)	F	145		167 <sup>0</sup> f
	Viscosity @ 104 <sup>0</sup> F				
	CS CP		Report Report		1.56 1.23
	<b>Distillation</b>				
	IBP		Report		400
	10%		Report		409
	50%		Report		421
	90%		Report		449
	DP		Report	480	470
	Recovery				100.0
	Aniline Point		Report		166.6
	KB Value		Report		26.1
	Pour Pt, D-97, F		Report		-40
	Aromatic Content V	ol%	Report		8.2
	DateSignature		P.O. Revised	02/15/93	

DUBACH GAS COMPANY

Claiborne Plant

P.O. Box 170

isbon, LA 71048

(318) 353-2283

Fax: (318) 353-2213

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ATEHIAL S EMERG	AFETY DATA SHEET ENCY TELEPHONE NUMBERS	COMPANY 713/838-4	<u>October 16</u> 1700	1993	<u> </u>	
ODVCT	I, PRODI KERMAC 142 Flash N	lophtha, Rule	66	CHRMICAL NAME AND Medium	SYNONYMS Allphatic Solvent Naphtha	
REMICAL FAMIL	Patroloum Hydrocarbon N	phths		PORMULA C10 - C	:14	
	Im Anniation Hannad Babine Confee		HUALTH CODE	FIRE CODE	REACTIVITY CODE	
ninnal Pire Presses nat = 0 Adversta = 7	Slight - 1 High - 3 Fatrance - 4		0	2	0	
nat - 0 ad <u>crain - 2</u>	Slight - 1 <u>High - 3</u> Extreme - 4 II. SUMW CAUTIONI COMBUSTIBLI DELAYEDLUNG INJURY. HAZARD IF SWALLOWED and flame. Avoid breathin exposure fimite. Avoid c	IARY OF Hi E LIQUID AND V CAN CAUSE NI D - CAN ENTER I Ing vapar. Use v Dontact with syst	AZARDS APOR. HARA INVOUS SYST UNGS AND C entilation addr skin and clo	PUL IF INHALED AND EM DEFRESSION. AS AUSE DAMAGE. Kee uste to keep vapor bal hing. Wash thorough	MAY CAUSE IPIRATION Ip sway from heat fow recommended ity after handling.	
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Medium All (CAS # 64	Slight - 1 <u>High - 3</u> Extreme - 4. II. SUMW CAUTIONI COMBUSTIBLI DELAYEDLUNG INJURY. HAZARD IF SWALLOWED und flame. Avoid breathin exposure fimits. Avoid c Stial YES <u>III. HAZA</u> PROREDIENT phatic Solvent Naphtha 742-88-7)	ARY OF HA	AZARDS APOR. HARA INGS AND C entilation addr a, akin and clo KAME AND NUM Naphtha, com	2 FUL IF INHALED AND EM DEFRESSION. AS AUSE DAMAGE. Kee uste to keep vapor hal hing. Wash thorough BER bustible liquid, UN125 FEL/TLY Stoddard Solvent TWA - 100 ppm	MAY CAUSE IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIONA IPIRATIO	

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IV. HEALTH INFORMATION EXPOSURE BY ROUTE OF ENTRY EXPOSURE CHARACTERISTICS AND FIRST AND Acute: Headache, nasal and respiratory irritation, nauses, droweiness, EFFECTS breathleseness, fatigue, central nervous system depression, convulsions. and loss of consciousness. 5 INHALATION Move exposed person to fresh air. If breathing has stopped, perform FIRST AID artificial respiration. Get medical attention as soon as possible. Acute: initation DEVECTO Chronic: dermatitis SKIN If clothing soaked, immediately remove clothing and wash skin with scap and water. Laundar clothing bafore wearing. Get medical TRATAD attention prompity. Acute: irritation EFFECTS EYES immediately flush eyes with water for a minimum of 15 minutes. occasionally lifting the lower and upper lide. Get medical attention promptly. FURST ALD Acute: espiration hazard, headache, nausea, drowsinesa, fatigue, pneumonitis, puimonary edema, central nervous system depression, **EFFECTS** convulsions and loss of consciousness. SWALLOWING INGESTION Call a physician immediately, ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person FILST AID Medical conditions Commenty Agrevand by Exponents N/AV •. LISTED AS NATIONAL TONICOLOGY PROGRAM NOT LISTED INTERNATIONAL Agency (or Research on Cancer ARED POTENTIAL CARCINOTION OR CARCINOGEN

and the state of the second second
V. EMPLOYEE PROTECTION

RESPIRATORY PROTECTION QUICEN APPROVED RESPIRATORS ARE OSHA STD. 1910.134

Up to 1000 ppm, half-mask organic vapor respirator. Up to 5000 ppm, full-face organic vapor respirator or full-face supplied air respirator. Greater than 6000 ppm, fire fighting, or unknown concentration, saif-contained breathing apparents with positive pressure.

SKR4	Gloves: Nitrile, neoprene or other material resistant to nephtha.
ITE	Safety glasses, chemical goggles or face shield as appropriate.

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MAR METH

VENTILATION

ODOR

SPECIFIC ORAVITY

Petroleum Naphtha

0.78

Maintain local or dilution ventilation to keep air concentration below 100 ppm. Loading, unloading, tank gauging, etc., remain upwind. Request assistance of safety and industrial hygicne personnel to determine air concentrations.

	VI. FIRE PRO	TECTION INFORMATION		•
Plash Port and Method	AUTOKINITION TEMPERATURE	FLANGABLE LINETS & VOLUME IN AIR. EFTMATED	LOWER 0.7	UPTER
Tag Closed Cup 142 * F	450 'F			
Extenduishing Media				
Carbon dióxide, dry chemica exposed to fire, if leak or a	l, or foam. Water stream may t pill has not ignited, use water sp	ipread fire, use water spray only to coo ray to disperse the vapors.	i containera	
KAZARDOVS DECORPOSITION PROD Incomplete combustion can	ucra yield carbon monoxide and veric	we hydrocarbons.		
FIRE AND EXPLOSION HAZARDS	<u>،</u>			
Can form combustible mixtu	res with air when heated,			
Do not store with stm	ng oxidizers. Store as OSHA Cli	ase IIIA combustiple liquid.		
WILL NOT OCCUR	X MAY OCCUR	STABLE X	UNSTABI	LE
	VII. PHYSIC	al and chemical properties		
THICK DIRLING	Red VAPOR PRESSURE (RVP) # 100	PP BYAFORATION OTHYL BT	112R # 1) .	
360 - 415 'F	ESTIMATED 0.1 pounds	ESTERATED 8 time	s slower	
PPRCENT VOLATELE SY VOLUME	AVO. MOLECULAR WEIGHT	APTEARANCE		
(5) 100	170	Clear U	iuin	

DROP POPIT

VISCOATTY

N/A

1.3 cs at 100 'F

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ENTIMATED VAPOR DENSITY (AIR = U

SOLUEILITY (C/ICO WATER AT 20° C)

Negilgible

		VIII. ENVIRONMENTAL PROTECTION	
	\$ P 1 L 5	Notily emergency response personnel. Evocuate area and remove ignition sources. Build dike to contain flow. Remove free liquid, do not flush to sewer or open water. Pick up with inert absorbant and place in closed container for disposal.	· · ·
W A S T E	D I S P Q S A L	Utilize licensed waste disposal company. Consider recycling or Incineration. Utilize permitted hazardous waste disposal site or Industrial waste disposal site as appropriate.	
A	DOTTIONAL INP	DEMATION	

kepaked by			DATE PREPARED
<u>×</u>	KEITH W. B	IUNSELMEYER	October 16,1993
SCIAMER		9	
The inform halefved Since we products or situation product f	metion and rac to be reliable ar cannot anticip may be used, to ons. Each user for his particula in the describer	ammendations contained in this publication have been comp to to represent the best current opinion on the subject at the ste or control the many different conditions under which this we make no gurantee that the recommandations will be adec of the product described herein should determine the suitab r purpose and should comply with all federal and state rules of product.	iled from sources i time of publication. i information or our justs for all Individuals lilty of the described and regulations
BREVIATIONS	;		
	cas #	Chemical Abstracts Service Number	
	N/A	Not Applicable	
	N/AV	Not Available	
	00m	Parts per million	· .
	PEL	Permissible Exposure Limit	
	TLV	Threshold Linkt Value	
	TLV.	Threshold Limit Value Both the OSHA PEL and the American Conference of Go	vornmental Industrial
	τιν	Threshold Limit Value Both the OSHA PEL and the American Conference of Go Hydemists TLV were inviewed. Where a difference exis	vornmental Industrial red, the more restrictive
	πv	Threshold Limit Value Both the OSHA PEL and the American Conference of Go Hygienists TLV were reviewed. Where a difference exis of the two was selected.	vornmental Industrial red, the more restrictive
	TLV STEL	Threshold Limit Value Both the OSHA PEL and the American Conference of Go Hygienists TLV were reviewed. Where a difference exis of the two was selected. Short Term Expansion Limit	vornmental Industrial ted, the more restrictive

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KERMAC 142 Flash Naphtha, Rule 66

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NITTO KER	R-MCGEE	REFINING GOSPO		SRANG HAME		
				KERMAC 142	Flash Naph	ATTENENT CODE
				1426		-
REFINED PRODUCT		ENTS		Santanhar I.	1003	
SPECIFICATION	PROPER	ITY .	METHOD	SHIPPING	TYPICAL TESTS	MARRETING SPECIFICATIONS
CD A1/17%					91	49-52
		40.15	0.287			
		•• <b>F</b>	D-1230		6.5	
FLASH POINT:	CLOSED CUP	(TCC) *F (*C)	0-54		144	142 MIn
	CLOSED CUP	(PM) *F (*C)	0.43	· ·	4	
•			G-72			
FIRE POINT:	OPEN CUP (C	DC) *#	D-92			
DISTILLATION:	ISP (Initial ba	Niling point "F ("C)	D-84		364	356 Min
	5			1 .	1	
مەربىيەر بىلەن يېرىيەر بىرىمىچە	10					
	20 30					
	40 50				383	
	40	يهيها المدند معيدين مستعبدها المالعات البيني				
	70					
	10					
	<b>PB</b>					
	DP [[DTY P] CP [[CTY P]	5777 ("C)] 1077 - 17 ("C)]			400	417 Mex
	STILL ATION					
	31126711014					
CORROSION:	3 Hours @	212 'F (100'C)	Q-130		I.	1 Max
	½ Hour ∉	Soliing Point	0-205			
	for both			-	30	28 Min
	Acid Wath		D-RAB			
						<u> </u>
POLIR POINT:	۶ <b>۴</b>		0-97			
VISCOSITY:	Sayport (SU	3) 🌒 100°F, Seconde	Ó-2141			
		🗣 Jecondo				
		ct q"P Securite	D-216) .	}	· · · ·	
	Kinemetic	U 100°f Carsistohas	D-448	•	1.2	
			D-445	1		·
SOLVENCY:	Kquri-Buter	nei Value	0-1139		30	
	Aniline Peir	₩ <b>1</b> ₽	0-611	•	102	
	Mixed Anil	ne Point "F	0-011	{		
	stitution Re	10	0-1720			
CHEMICAL PRO	PERTIES:	Sulfur Wt. 96	0.4043		Below 50	
-		Doctor Test	0-484		Neg	Neg
		Saturatos Val. %	0-1519			1
		Paretlins Vol. 🎭	0-2159		}	
		Nanhihenne Vel, %	D-2159	1		1
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a serve and a server ۰. RAND NAME KERR-MCGEE MATTOMME & CAMPLE & LAND 21 888 ( KERMAC 142 Flash Naphtha - Rule 65 PROVET COOL 1426 AFI SCINE DATE SHELINE TION ---- SOLVENTS September 1, 1993 CONTINUED SHIPPING TEST TERTS MARKETING PROPERTY CHEMICAL PROPERTIES (Conr'd): VQL. % BENZENE NII Got Chrem. Less Then 0.01 ... VOL. Ta ETHYL BENZENE Gas Chrem, TOLUENE VOL % Gos Chrom. O XYLENE VOL 95 Gos Chrem, ..... M' SYLENE VOL. 05 Ges Chrem. + XYLONE VCL % Gas Chrow, SULFURIC ACID ABSORPTION. VOL. 94 0-484 BROMINE NUMBER, mg/grm 0-1157 UNSULFONATED ALLIOUR. VOL. 0; 0-463 • ODOR: BULK . RESIDUAL PHENOL NUMBER mg/100 mi APPEARANCE: CLEAR AND BRIGHT HAZZ. OTHER PROPERTIES: VAPOR PRESSURE VAPOR DENSITY FLAMMABLE LIMITS Lower Upper REFRACTIVE INDEX @ 20 ·c 1.43 8-1218 INTERFACIAL TENSION "/sm 0-971 DIELECTRIC BREAKDOWN VOLTAGE 0.477 AUTO IGNITION TEMPO "F 0-1153 UOP CHARACTERIZATION FACTOR SUREAU OF MINES CORRELATION INDEX EXISTENT GUM NON-VOLATILE RESIDUE 0-1355 Average Molecular Weight 159

REMARKS & NOTES

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Ments ASTH D-235 Standard Specifications for Mineral Spirits, Type II. High Flash Point Mineral Spirits. Meets Federal Specification PD680A. Type 11. Dry Cleaning & Degreesing Solvent.

SUPERSEDES SPECIFICATION FOR		CR METHOD OF MANUFA		BATE	WITNOUT HEW APPROVALS.
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Jana Skow 9443	9-/7-95	Sterl: Seg	0ATE	r nan	Jacon gips

December 18, 19





## Material Safety Data Shee

USA and Canada

Other Countries

## SULFURIC ACID

PHILLIPS 66 COMPANY A Subsidiary of Phillips Petroleum Company Bartlesville, Oklahoma 74004

PHONE NUMBERS		
Emergency:		
Business Hours	(918)	661-3
After Hours	(918)	661-8
General MSDS Informati	Lon:	
	(918)	661-8

## A. Product Identification

Synonyms: Oil of Vitreol Chemical Name: Sulfuric Acid Chemical Family: Acid Chemical Formula: H2SO4 CAS Reg. No.: 7664-93-9 Product No.: CC5570

Product and/or Components Entered on EPA's TSCA Inventory: YES

## B. Hazardous Components

Ingredients	CAS Number	Z By Wt.	osha Pel	ACGIH
Sulfuric Acid	7664-93-9	93 (Min)	1 mg/m3	1. mg/m3
and the second				

#### C. Personal Protection Information

Ventilation: Use adequate ventilation to control exposure below recommended exposure limits. See Recommended Exposure Limits in Health Hazard Data (Section F).

Respiratory Protection: Use NIOSH/MSHA approved full-face, air supplied respiratory protective equipment. Use NIOSH/MSHA approved self-contained breathing apparatus (SCBA) for entry to or escape from unknown atmospheres.

Eye Protection: Full-face shield and chemical goggles for splash protection.

Skin Protection: Rubber gloves. Protective clothing, boots and rubber apron.

NOTE: Personal protection information shown in Section C is based upon general ---information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

#### D. Handling and Storage Precautions

Avoid inhalation and skin and eye contact. Wear protective equipmentand/or garments described above if exposure conditions warrant.

Store in cool, dry, well-ventilated area. Provide means of controlling leaks and spills. Avoid contact with materials listed below in Reactivity Data. When diluting acid, add acid to water never add water to acid.

#### E. Reactivity Data

Stability: Stable Conditions to Avoid: Not Applicable Incompatibility (Materials to Avoid): Oxidizing or reducing materials, metals, combustible materials, and moisture. Avoid adding water to product. Hazardous Polymerization: Will Not Occur Conditions to Avoid: Not Applicable Hazardous Decomposition Products: Sulfuric acid mist and sulfur oxides. Hydrogen gas can be generated as a decomposition product and care must be taken not to ignite.

#### F. Health Hazard Data

#### **Recommended Exposure Limits:**

OSHA PEL is 1 mg/m3; ACGIH TLV is 1 mg/m3.

Sulfurie Acid (CP-0-1)

#### Acute Effects of Overexposure:

- Eye: Corrosive, devastating injury resulting in glaucoma, cataracts, extensive damage to cornea and conjunctiva leading to blindness.
- Skin: Corrosive; can burn and char the skin which can lead to scarring.
- Inhalation: Irritation of the eyes, nose and respiratory system, coughing; severe overexposure can result in laryngeal, tracheobronchial and even pulmonary edema, brochoconstriction, laryngeal spasm leading to asphyxiation.
- Ingestion: Corrosive to tissues; immediate pain when taken into the mouth as well as spasm of the larynx, trachea, and bronchi. Epigastric pain, nausea, vomiting, intense thirst, circulatory collapse, perforation of the trachea or stomach, and death. May be aspirated into the lungs if swallowed resulting in pulmonary edema and chemical pneumonitis.

Subchronic and Chronic Effects of Overexposure:

Chronic conjunctivitis, frequent respiratory infections, emphysema, \_\_\_\_\_\_ and digestive disturbances, erosion and/or discoloration of teeth have been reported in persons exposed to sulfuric acid over the course of many years.

#### Other Health Effects:

No known applicable information.

#### Health Hazard Categories:

Animal Human

Known Carcinogen
Suspect Carcinogen
Mutagen
Teratogen
Allergic Sensitizer
Highly Toxic

Animal Human

Animal Human
Animal Human

Animal Human

Animal Human

Animal Human

First Aid and Emergency Procedures:

- Eye: Hold eyelids apart and irrigate eyes with running water for at least 15 minutes and continue to irrigate until otherwise directed by a physician. Treat for shock as necessary.
- Skin: Flood affected area with running water for at least 15 minutes while removing contaminated clothing. Treat for shock as necessary. Seek immediate medical attention.
- Inhalation: Immediately remove from exposure. Initiate artificial respiration, cardiopulmonary resuscitation, or treatment for shock as necessary. Administer oxygen as needed. Obtain prompt medical assistance.
- Ingestion: If vomitus is bloody, do not attempt to give anything by mouth. Otherwise, immediately rinse the mouth and lips and assist victim in swallowing large amounts of water. Do not induce vomiting or attempt chemical neutralization. Treat for shock as necessary. Obtain prompt medical assistance. May present an aspiration hazard.

## G. Physical Data

Appearance: Colorless, Oily Liquid Odor: Pungent Boiling Point: 626F (330C) Vapor Pressure: 0.02 psia (1 mm Hg) at 295F Vapor Density (Air = 1): >1 Solubility in Water: Complete, generates large amounts of heat Specific Gravity (H20 = 1): 1.834 at 60/60F Percent Volatile by Volume: Negligible Evaporation Rate (Butyl Acetate = 1): <1 Viscosity: Not Established

### H. Fire and Explosion Data

Flash Point (Method Used): Flammable Limits (% by Volume in Air):	Not Applicable LEL - Not Applicable UEL - Not Applicable
Fire Extinguishing Media:	Dry chemical, foam or carbon dioxide (CO2)
Special Fire Fighting Procedures:	Product is not flammable, but may cause ignition on contact with combustible liquids and solids. Self-contained breathing apparatus and full protective clothing recommended. Water may be used to extinguish burning combustibles, but do not apply directly to acid.
Fire and Explosion Hazards:	Can cause ignition on contact with combustibles. Exothermic with water. Sulfur oxides and hydrogen gas may be released as decomposition products.

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#### I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled: Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Contain spill. Protect from contact with combustibles. Keep out of water sources and severs. Neutralize sodium bicarbonate, soda ash, crushed limestone, lime, or other alkaline material. Shovel into disposal drums. Flush area with water.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations): Burn under controlled conditions or place in other RCRA permitted waste disposal facility.

#### J. DOT Transportation

Shipping Name: Sulfuric Acid Hazard Class: Corrosive Material ID Number: UN 1830 Marking: Sulfuric Acid/UN 1830 Label: Corrosive Placard: Corrosive/1830 Hazardous Substance/RQ: RQ - 1000 lbs/454 kg Shipping Description: Sulfuric Acid, Corrosive Material, UN 1830 Packaging References: 49 CFR 173.244 and 173.272

K. RCRA Classification - Unadulterated Product as a Waste

Corrosive

### L. Protection Required for Work on Contaminated Equipment

Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Contact immediate supervisor for specific instructions before work is initiated.

### M. Hazard Classification

\_X\_ This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

Combustible Liquid Compressed Gas Flammable Gas Flammable Liquid Flammable Solid	<pre> Flammable Aerosol Explosive _X_ Health Hazard (Section F) Organic Peroxide</pre>	Oxidizer Pyrophoric Unstable _XWater Reactive
Based on information	measurile and letter mede	et doog not meet

\_\_\_\_ Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

## N. Additional Comments

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section B).

Sulfuric Acid

Philling believes that the information contained herein (including data and statements) is accurate as of the data hereof. NO WARRANTY OF MERCHANTABILITY, PITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY. EXPRESS OR DAPLIED, IS MADE AS CONCERNS THE INFORMATION HEREIN PROVIDED. The information provided herein relates only to the specific product designates and may not be valid where such product, is used in combination with any other materials or in any product. Further, since the consistents and methods of use of the product and information relations are broaded to any source to herein a management of the product and information relations, afflicate, and submanifest Phillips (references to Phillips including to drustions, afflicate, and submanifest Phillips converts descent and any or source information. No statement made herein made and the construct as a permission or recommendations for the use of any product in a management that much information. No statement made herein that be construct as a permission or recommendations for the use of any product in a management that much information plants.

NA - Not Applicable NE - Not Established

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

#### March 11, 1997



Dear Mr. Bays:

The New Mexico Oil Conservation Division (OCD) received on March 6, 1997 a letter from EPFS requesting that the RCRA Subtitle C Exempt Molecular Sieve be spread on the facility as road base. The OCD approves of the spreading of this molecular sieve for the beneficial use as road base at the EPFS Chaco plant within the facility area with the following conditions:

- 1. The molecular sieve will be liquid free prior to spreading.
- 2. EPFS will submit a follow-up letter to the OCD by April 11, 1997 that will include the volume of molecular sieve placed and an MSD Sheet.

Note, that OCD approval does not relieve EPFS of liability should EPFS operation's result in contamination of surface water, ground water, or the environment. OCD approval does not relieve EPFS from compliance with other federal, state, and local regulations/rules that may apply.

Sincerely

Patricio W. Sanchez, Petroleum Engineering Specialist Environmental Bureau

c: Mr. Denny Foust - Aztec District Office, OCD.

082°-852°882 d



Mr. Pat Sanchez New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505

COLORIAN CARLOS CONTROL LONGERVATION DIVISION,

Dear Mr. Sanchez:

El Paso Field Services is preparing to locate a molecular sieve type gas dehydrator from the Chaco Plant to the Coyote Gulch Plant in southern Colorado. Prior to relocating the dehydrator EPFS will need to remove the molecular sieve beads and replace them with new beads once the unit is re-installed.

EPFS requests authorization to dispose of the used molecular sieve beads on site at the Chaco Plant by spreading them on a graveled road within the plant property. These beads are a dry calciferous material impregnated with activated alumina, and are virtually inert when removed from service.

If you have any questions, or need additional information, please call me at (505) 599-2256.

Sincerely yours,

cc:

aucil Baye

David Bays Sr. Environmental Scientist

Denny Foust - NMOCD - Aztec, NM Mike Hansen Gerry Hoover S. D. Miller/R. D. Cosby/Chaco Regulatory file

RECEIVED

MAR - 6 1997

Environmental Bureau Oil Conservation Division





January 31, 1997

Mr. Patricio W. Sanchez Petroleum Engineering Specialist New Mexico Oil Conservation Division 2040 S. Pacheco Street Santa Fe, NM 87504

#### Re: Annual Report for Chaco Plant Non-Contact Water Use by Outside Agencies

Several outside agencies continue to request the use of non-contact water from the Chaco Plant for natural gas/oil exploration & production and road maintenance activities. As a condition for this use EPFS is required to submit an annual report documenting these requests, the intended use for the water, and volumes used.

The last water use report submitted to NMOCD was transmitted by the attached letter dated June 3, 1996, which reported outside water usage through April 1996. Also, attached are signed agreements and log sheets that document the outside water uses for the remainder of 1996. This transmittal in conjunction with the June 3, 1996 transmittal completes the Annual Chaco Plant Outside Water Use Report for 1996.

If you have any questions, please give me a call.

FEB - 4 1997

Environmant\_

Ci Conservation

John S. Sterrett

JSS/jss

**C**:

w/ attachments Denny Foust - NMOCD, Aztec Office S. Miller/D. Bays/R. Cosby/File: Chaco Plant Regulatory

w/o attachments David Keck - San Juan County G. Hoover/M. Hansen - Chaco Plant



FEB - 4 1 17

June 3, 1996

Mr. Chris Eustice New Mexico Oil Conservation Division 2040 S. Pacheco Street Santa Fe, NM 87504

#### Re: Annual Report for Chaco Plant Non-Contact Water Use by Outside Agencies and Request for Modification to Approval Procedures

Mr. Eustice,

As you know, several outside agencies have and continue to request the use of Chaco Plant's non-contact water for natural gas/oil exploration & production and road maintenance activities. As a condition for this use EPFS is required to submit an annual report documenting these requests, the intended use and volumes. Attached you will find signed agreements and the log sheets documenting this use.

Due to the frequency of these request, EPFS request that the following procedure be implemented to accommodate the outside agencies, EPFS and The NMOCD:

- 1. Outside agencies will continue to sign EPFS' "Agreement for Non-contact Water Use" prior to the removal of water from Chaco Plant at the time of their initial request. This agreement essentially reemphasizes NMOCD's specifications for the water's use. EPFS will keep these agreements on file and submit them to the NMOCD with the Annual Report of Non-Contact Water Use.
- Use for dust suppression/road maintenance by San Juan County be approved on an annual basis to avoid the "case by case notification" required by NMOCD per the approval letter dated February 15, 1995 (attached). San Juan County shall be responsible for obtaining this approval and submitting the approval to EPFS/Chaco Plant.
- 3. All other conditions specified in the February 15th letter shall be observed.

This procedure should shorten the time consuming administrative duties imposed on EPFS and the NMOCD without jeopardizing the compliant use of the non-contact water. Please consider this course and contact me at 505-599-2175 if you have questions about this information or the suggested procedure.

Thank you. Patrick J. Marquez

Compliance Engineer

xc: w/attach Denny Foust - NMOCD S.Miller/D.Bavs/R.Cosby/File: Chaco Plant Regulatory 8m, 19.9. AC w/o attach David Keck - San Juan County P.Quintana/G.Hoover/M.Hansen



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

AZTEC DISTRICT OFFICE 1999 RIO BRAZOS ROAD

AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6170

May 24, 1996

Mr David Keck San Juan County Public Works Director 305 South Oliver Drive Aztec NM 87410-2436

Bu Bar/SDM (Roc 178

File: Ohace Manthegolafor

RE: Use of Non-contact Wastewater for Use in County Road Construction and Maintenance

Dear Mr. Keck:

You have requested the use of non-contact wastewater generated and discharged at the El Paso Field Services (Chaco Plant), for San Juan County road construction and maintenance.

You may use this water as proposed with the following conditions:

- 1. The water will be applied so that no excess water runs off into roadside ditches or into any watercourse.
  - 2. At the end of each day's activity, unused water will be stored in trucks or tanks so the water does not drip or drain onto the ground overnight. Alternatively, the water may be returned to the Chaco Plant, if no other material has been added to the water intentionally or accidentally mixed with liquids that were previously contained in any truck or tank.

This approval is for one year, starting on this letter date; any further requests beyond that time must be approved by this office. This approval does not relieve you of liability should your operation result in actual pollution of surface waters, ground waters, or the environment that may be actionable under other laws and/or regulations. In addition, OCD approval does not relieve San Juan County of responsibility for compliance with any other county, state, federal, or other local laws and/or regulations.

Sincerely,

Buch

Érnie Busch District Geologist/Deputy Oil & Gas Inspector

EB/sh

cc: Roger Anderson <u>Pete</u> Quintana-Superintendent, El Paso Field Services (Chaco Plant) Paul



File : Checo Rant. Rugsletong.

June 5, 1996

Mr. David Keck San Juan County 112 South Mesa Verde Aztec, New Mexico 87410-2126

#### Re: Use of Noncontact Wastewater for Use in Dust Suppression

Dear Mr. Keck:

You asked to use the noncontact wastewater generated and discharged at the El Paso field Services Company ("El Paso") Chaco Plant pursuant to an approved New Mexico Oil Conservation Division discharge plan. El Paso will allow San Juan County ("San Juan") to use the noncontact wastewater provided you agree in advance to the following:

- 1. Prior to obtaining the wastewater from the Chaco Plant ponds, San Juan truck drivers will notify the Chaco Plant Superintendent;
- Use of the wastewater is limited to the use as a dust suppressant on unpaved roads of San Juan County, and shall not be used in such a way that allows the water to be discharged into any water of the U.S. as defined in the U.S. Clean Water Act (33 U.S.C. §§ 1251 to 1387) and the New Mexico Water Quality Act (N.M. Stat. Ann. §§ 74-6-1 to 74-6B-14);
- 3. The wastewater shall never be discharged within one hundred feet (100') of the nearest natural boundary of any wash or; and,
- 4. San Juan releases El Paso from any liability, claims, or causes of action which may arise from the procurement, use, and discharge of the wastewater by San Juan, its agents, or its contractors

If San Juan agrees to abide by the above terms and conditions, please indicate its approval by signing in the space below and return this letter to me.

Very truly yours,

Patrick J. Marquez Compliance Engineer San Juan Cnty May 24, 1996 Page 2

AGREED TO AND ACCEPTED this <u>14</u> day **May** 1996 June

by ( atruca its Acting County Manager

APPROVED AS TO FORM SAN JUAN COUNTY ATTORNEY

. BY: 50 6-13-94

Shace Mart - Kayoleb Durrett, Jr. County Attorney

Stephen C. Ross Deputy County Attorney

Sherry L. Galloway Chairman

> Ervin Chavez Chairman Pro Tem

Billy F. Hillgartner Member

John A. Dean, Jr. Member

Gordon Crane Member

Tony Atkinson Manager



## San Juan County

112 South Mesa Verde Aztec, New Mexico 87410-2126 (505) 334-9481 Fax: (505) 334-3168

June 17, 1996

Patrick J. Marquez Compliance Engineer El Paso Field Services Chaco Plant P.O. Box 4990 Farmington, NM 87499

Re: Letter of Agreement/Use of Noncontact Wastewater for Use in Dust Suppression

Dear Mr. Marquez:

Enclosed please find one original Letter of Agreement regarding the above-referenced matter.

Thank you for your assistance.

Singerely,

ly Back

Kathy Keck Legal Department

Enclosure as noted

cc: Dave Keck, Public Works

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Date	Date Company		Intended Use	Final Disposition of Water	Signature
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# Chaco Plant Non-Contact Waste Water Acceptance Log

Date	Company	Amount (Barrels)	Intended Use	Final Disposition of Water	Signature
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7-19-96	1	50006	1/	y	Mike Herlin
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OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 19, 1996

### CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-692

Mr. David Bays El Paso Field Services (EPFS) P.O. Box 4990 Farmington, NM 87499

### RE: Discharge Plan GW-071 Renewal Chaco Gas Plant San Juan County, New Mexico

Dear Mr. Bays:

On May 18, 1992, the groundwater discharge plan, GW-091, for the Chaco Gas Plant located in Section 16, Township 26 North, Range 12 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on May 18, 1997.

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires (on or before January 18, 1997), then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether El Paso Field Services has made, or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the Chaco Gas Plant is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of \$50 plus a flat fee of \$16675.50 for Gas Plants. The \$50 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

Please make all checks payable to: NMED-Water Quality Management and addressed to the OCD Santa Fe Office. Should be  $\frac{1}{50}$  be  $\frac{1}{50}$  MM Mr. David Bays EPFS, GW-071 6 Month Notice November 19, 1996 Page 2

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Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. Note that the completed and signed application form must be submitted with your discharge plan renewal request.(Copies of the WQCC regulations and discharge plan application form and guidelines have been provided to EPFS in the past. If you require copies of these items notify the OCD at (505)-827-7152. A complete copy of the regulations is also available on If El Paso Field Services no longer has any actual or potential discharges and a discharge plan www.emnrd.state.nm.us/ocd.htm.) is not needed, please notify this office. If El Paso Field Services has any questions, please do

not hesitate to contact Pat Sanchez at (505) 827-7156.

Sincerely,

Roge and

Roger C. Anderson Environmental Bureau Chief

Mr. Denny Foust

P 288 258 692

Receipt for Certified Mail

No Insurance Coverage Provided. Do not use for International Mail (See reverse)

Sent to		
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RCA/pws

STATE OF NEW MEXICO CONSERVATION MEMORANDUM OF MEETING OR CONVERSATION CERT. MAIL NO. P-288-258-608 Time 8:00 AM (1) 11-18-96 Date Telephone Personal () 8:15 AM 2 Originating Party Other Parties Pat Somehez - OCD Rager Andurson / Mark Ashley -OCD Letter Dated Nov. 13, 1996 from EPFS, Mr. Subject Pavid Bays- regarding impoundments at N. \$ 5. Chaco the Ballard Separator Pond. Plant, Kutz Separator. pend, and Discussion Method using dye for monitoring is acceptable. (D (B) Notify Mr. Bays per phone. 2 Conclusions or Agreements to use dye to monitor Okay W/EPFS OCD will mail Notified Mr. Bays as approva Memo - certified him the Distribution chause, Kutz, Bullard Files, Signed. Denny Fonst. Var

# P 288 258 688

EPFS - Chai	co - Impounda
Street & Number Day	6. <b>,</b>
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TOTAL Postage & Fees	\$





November 13, 1996

COR COLLINGER

NOV 1 8 1996

Environments elem te Oil Consulvation Division

Mr. Roger Anderson New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505

Dear Mr. Anderson:

During the winter of 1995, El Paso Field Services Co. (EPFS) found water in the leak detection systems in four of the lined surface impoundments in the San Juan Basin area. These four impoundments are the north and south Chaco Plant contact water ponds, the Kutz Separator pond, and the Ballard Separator Pond.

Electronic testing of all four ponds was done in November 1995. Several leaks in the upper liners of all four ponds were pinpointed during the testing.

EPFS has now completed repairs to the liners of all four ponds. All identified leaks were cleaned and patched with new liner material. All patches were installed using a heat welding method rather than the less dependable solvent welding (gluing). After installation of the repair patches, all leak points were tested using a vacuum test box. Two of the leaks in the north Chaco pond and one leak point in the Kutz Separator pond failed the vacuum test. The liner material at all three of these leak points was recleaned, buffed using a wire brush on a disk grinder, and new patches applied. The replacement patches were again tested, and all three passed the vacuum test.

In order to conduct the original electronic testing, it was necessary to introduce large volumes of water into the space between the liners on all four ponds. The recovery of the test water has been very slow due to the lack of slope on the pond bottoms. At this point it is not possible to determine if water seeping into the leak detection wells is from new leaks, or water left from the testing last fall.

Therefore EPFS is proposing to introduce a green colored fluorescent tracer dye into all four ponds. The final concentration of dye in the water will be maintained at approximately 40 parts per million. This dye is detectable using an ultraviolet light source at levels as low as 2 parts per million. During the monthly inspections of the leak detection systems, liquids in the leak detection wells (if any) will be checked for the presence of the dye. If no tracer dye has been recovered in the leak detection systems within the next 12 months, then the ponds will be presumed to have no more leaks.

Mr. Roger Anderson November 13, 1996 Page 2

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NMOCD authorized this same tracer dye method for leak repair verification for the El Paso Natural Gas Co. Lincoln Station during 1994. After a few weeks in service, the dye used at Lincoln did indicate an additional leak, which was then repaired. Please let me know if you believe this method will be adequate to determine the effectiveness of our liner repairs. If you need any additional information, please call me at (505) 599-2256.

Sincerely yours,

Daniel Bay

David Bays Sr. Environmental Scientist

cc: Mr. Denny Foust S. D. Miller/J. S. Sterrett/R. D. Cosby/Chaco Plant Regulatory file



P.O. Box 4990 Farmington, NM 87499

Patricio Sanchez Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505

**RE: Chaco Plant Sump Repair** 

Pat,

During our recent Chaco Plant shutdown an annual sump inspection found that the Process Oil Skimmer Tank had developed a leak. A weld where the 8" receiving inlet is joined to the inner wall was defective. No signs of leakage was observed from the outer wall to the environment. Since that time the sump was taken out of service.

The primary source of the tank was the open drainage system from the amine processing plants. The amine plants were taken out of service during the shutdown due to the installation of the cryogenic plant completion and trial run.

The weld was repaired October 23,1996 and will be available for service as needed. A visual inspection of the remaining welds took place at the time of the repair noting no other discrepancies.

Carley

Ricky D. Cosby Compliance Specialist

BEWEN ED

OCT 3 1 1996

Oil Conservation Division

cc: Denny Foust

file: Chaco Plant Regulatory



P.O. Box 4990 Farmington, NM 87499

Date: October 3, 1996

Pat Sanchez New Mexico Oil Conservation Division 2040 South Pacheco P.O. Box 6429 Santa Fe, New Mexico

#### Pat,

I apologize for the poor copy quality of the analytical report submitted October 1, 1996. Enclosed please find another copy for the Chaco Plant inlet water filter media sample analysis. A copy of this report will also be sent to Mr. Denny Foust.

Sincerely,

ly A. Corly

Ricky D. Cosby Compliance Specialist

RECEIVED

OCT 4 1996

Environmental Bureau Oil Conservation Division

cc: Denny Foust NMOCD

September 30, 1996

RECEIVED

OCT 4 1996

Environmental Bureau Oil Conservation Division

## ANALYTICAL REPORT

# Chaco Plant Multimedia Inlet Water Filter Filter Media Lab Sample # 960744 Sampled 9/9/96 Sampled by Bob Heath

#### **REMARKS:**

The sample was collected/tested in order to determine disposal characteristics for this material. The sample was tested for Ignitability (Flashpoint), Reactivity, Corrosivity (pH) and TCLP RCRA Metals. Results of the analysis indicate that this material is not a characteristic hazardous waste for the components tested.

**Distribution:** 

David Bays Rick Cosby Al Marruffo Mike Hanson Results Log Book



OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico \$7505 (505) \$27-7131

August 21, 1996

### CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-602

Mr. Ricky Cosby Compliance Specialist El Paso Field Services (EPFS) P.O. Box 4990 Farmington, NM 87499

RE: Filter Media GW-71, Chaco Plant San Juan County, NM

Dear Mr. Cosby:

The New Mexico Oil Conservation Division (OCD) has received the EPFS letter dated August 9, 1996 requesting that OCD allow EPFS to spread water filtration media. The OCD cannot approve of this onsite spreading of the media for the following reasons:

- 1. The media is non-exempt from RCRA Subtitle C regulations as defined in 40 CFR Part 261. Therefore the media needs to be characterized for hazardous constituents in terms of TCLP Constituents of Concern, and Reactivity, Ignitability, and Corrosivity. All the media can not be a listed hazardous waste as defined in 40 CFR Part 261 (F, K, P, and U)
- The spreading of the media must also not cause WQCC Standards as defined in 3103 A, B, and C to be exceeded, and cannot contain constituents that will cause WQCC 1101.TT Toxic pollutant levels to be exceeded.

However, if EPFS wishes to sample and characterize the filter media per points (1.) and (2.) above and can show that neither will be exceeded, then the OCD should be able to approve of the spreading of the filter media at Chaco Plant.

Note: EPFS also has the option of off-site disposal at an OCD approved facility.

Sincerely.

Patricio W. Sanchez Petroleum Engineer, Environmental Bureau

XC: Mr. Denny Foust - Environmental Geologist

AEN I.D. 609322

September 27, 1996

El Paso Field Services P.O. Box 4990 Farmington, NM 87499

> multimedia Filter Media EPES LAB ED #960744

Project Name/Number: CHACO FILTER N/A

Attention: John Lambdin

On **09/11/96**, American Environmental Network (NM), Inc., (ADHS License No. AZ0015) received a request to analyze **non-aqueous and aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

All analyses were performed by American Environmental Network (FL) Inc., 11 east East Olive Road, Pensacola, FL.

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

Kingdel

Kimberly D. McNeill Project Manager

MR:ft

Enclosure

HW. Elell Lu

H. Mitchell Rubenstein, Ph.D. General Manager



609322-01

609322-02

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02

CLIENT PROJECT #	:EL PASO FIELD	SERVICES	DATE RECEIVED	:09/11/96
PROJECT NAME	: CHACO FILTER		REPORT DATE	:09/27/96
		AEN ID: 609322	2	
	AEN ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED

960744

960745

Charo Pant Multimedia Filter Media

NON-AQ

-AQUEOUS-

09/09/96

09/10/96\_

---TOTALS---

MATRIX	<u>#SAMPLES</u>
NON-AQ	1
AQUEOUS	1

#### AEN STANDARD DISPOSAL PRACTICE

he samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

#### "FINAL REPORT FORMAT - SINGLE"

Accession: Client: Project Number: Project Name: Project Location: Test: Matrix: QC Level:	609300 AMERICAN 609322 EPFS N/S HAZARDOU SOLID II	N ENVIRONMENTA	AL NETWORK OF	F NEW MEXICO			
Lab ID: Client Sample Id:	001 609322-0	01	S	Sample Date/T: Received Date	Lme:	09-SEP-96 13-SEP-96	1345
Parameters:		Units:	Results:	Rpt Lmts:	Q:	Batcn:	Analyst:
FLASHPOINT (1010) CYANIDE, REACTIVE SULFIDE, REACTIVE PH (9045)	(9010) (9030)	DCENTI MG/KG MG/KG UNITS	>100 ND ND 7.9	25 0.25 5 NA		FPX041 RCX032 RSX032 PHS186	SG JL JL MM

Comments:

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### "Method Report Summary"

Accession Number: Client: Project Number: Project Name: Project Location: Test:	609300 AMERICAN ENVIRONMENTAL NETWORK 609322 EPFS N/S HAZARDOUS WASTE EVALUATION	OF NEW MEXICO	
Client Sample Id:	Parameter:	Unit:	Result:
609322-01	FLASHPOINT (1010) PH (9045)	DCENTI UNITS	>100 7.9

### "FINAL REPORT FORMAT - SINGLE"

Client:       AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO         Project Number:       609322         Project Name:       EPFS         Project Location:       N/S         Fest:       TCLP HAZARDOUS WASTE EVALUATION, METALS         Matrix:       NON-AQUEOUS LEACHATE         QC Level:       II         Lab Id:       003       Sample Date/Time: 09-SEP-96 1345					
003 609322-01		Sample Date/T Received Date	'ime:	09-SEP-96 13-SEP-96	1345
Units:	Results:	Rpt Lmts:	Q:	Batch:	Analyst:
MG/L         .0)       MG/L	ND ND 1.4 ND ND ND ND	0.01 0.05 0.01 0.005 0.01 0.002 0.05		A6T050 R6T050 B6T050 C6T050 H6T050 M7T047 P6T050 S6T050	JR JR JR JR GJ JR
	609300 AMERICAN ENVIRONME 609322 EPFS N/S TCLP HAZARDOUS WAS NON-AQUEOUS LEACHA II 003 609322-01 Units: 0) MG/L 0) MG/L 10) MG/L 10) MG/L 10) MG/L 10) MG/L 10) MG/L	609300         AMERICAN ENVIRONMENTAL NETWORK         609322         EPFS         N/S         TCLP HAZARDOUS WASTE EVALUATION         NON-AQUEOUS LEACHATE         II         003         609322-01         Units:         Results:         0)       MG/L         ND         0)       MG/L         NG/L       ND         0)       MG/L         ND         MG/L       ND         0)       MG/L         MG/L       ND         MG/L       ND         MG/L       ND         MG/L       ND         MG/L       ND         MG/L       ND	609300         AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO         609322         EPFS         N/S         TCLP HAZARDOUS WASTE EVALUATION, METALS         NON-AQUEOUS LEACHATE         II         003       Sample Date/T         609322-01       Received Date         Units:       Results:         NG/L       ND       0.01         .0)       MG/L       ND       0.05         .0)       MG/L       ND       0.005         .0)       MG/L       ND       0.001         .0)       MG/L       ND       0.005         .0)       MG/L       ND       0.005         .0)       MG/L       ND       0.001         .0)       MG/L       ND       0.002         .0)       MG/L       ND       0.05         .10)       MG/L       ND       0.05	609300         AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO         609322         EPFS         N/S         TCLP HAZARDOUS WASTE EVALUATION, METALS         NON-AQUEOUS LEACHATE         II         003       Sample Date/Time:         609322-01       Received Date:         Units:       Results:         NG/L       ND       0.01         .0)       MG/L       ND       0.05         .0)       MG/L       ND       0.005         .0)       MG/L       ND       0.005         .0)       MG/L       ND       0.005         .0)       MG/L       ND       0.005         .0)       MG/L       ND       0.002         MG/L       ND       0.055       0.05         .00       MG/L       ND       0.05	609300         AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO         609322         EPFS         N/S         TCLP HAZARDOUS WASTE EVALUATION, METALS         NON-AQUEOUS LEACHATE         II         003       Sample Date/Time: 09-SEP-96         609322-01       Received Date:         Units:       Results:         Rpt Lmts:       Q:         Units:       Results:         ND       0.01         MG/L       ND         0.0       MG/L         ND       0.005         NG/L       ND         0.0       MG/L         MG/L       ND         0.01       H6T050         02       MG/L         ND       0.02         MG/L       ND         ND       0.05         P6T050         ND       0.05         ND       0.05         MG/L       ND         0.05       P6T050         00       MG/L       ND         0.05       P6T050

Comments:

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#### "Method Report Summary"

Accession Number: Client: Project Number: Project Name: Project Location: Test:	609300 AMERICAN ENVIRONMENTAL NETWORK OF NEW M 609322 EPFS N/S TCLP HAZARDOUS WASTE EVALUATION, METALS	EXICO	
Client Sample Id:	Parameter:	Unit:	Result:

BARIUM, TCLP (6010)

MG/L

1.4

609322-01

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Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	FLASHPOINT FPX041 >25 1010 N/A 18-SEP-96 18-SEP-96	"WetChem ( RE-CN RCX032 <0.25 9010 N/A 24-SEP-96 24-SEP-96	Quality Cont RE SULFIDE RSX032 <5 9030 N/A 24-SEP-96 24-SEP-96	rol Report" PH PHS186 N/A 9045 N/A 13-SEP-96 13-SEP-96
Sample Dupl	lication			
Sample Dup: Rept Limit:	609166-1 >25	609377-2 <0.25	609377-2 <5	609300-1 N/A
Sample Result: Dup Result: Sample RPD: Max RPD: Dry Weight%	<25 <25 N/C+ >25 N/A	<0.25 <0.25 N/C 0.25 N/A	<5 <5 N/C 5 N/A	7.90 7.80 0.10 0.12 N/A
Matrix Spi	ce			
Sample Spiked: Rept Limit:	N/A >25	N/A N/A	N/A N/A	N/A N/A
Sample Result: Spiked Result: Spike Added: % Recovery: % Rec Limits: Dry Weight%				
ICV				
ICV Result: True Result: % Recovery: % Rec Limits:		2.18 2.00 109 90-110	18.24 20.00 91 90-110	9.95 10.00 100 90-110
LCS				
LCS Result: True Result: % Recovery: % Rec Limits:	28 27 104 96-104			6.97 6.87 101 97-103

0.15 Jq 190/416

#### "Quality Control Comments"

Batch Id: Comments:

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FPX041 FPX041

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609411-1, 609186-1, 609188-1, 609300-1, 609388-1, 609425-1,2 WERE ADDED TO BATCH ON 9/20/96.

----- Common Footnotes WetChem -----N/A = NOT APPLICABLE.N/S = NOT SUBMITTEDN/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY. N/D = NOT DETECTED.DISS. OR D = DISSOLVED T & D = TOTAL AND DISSOLVED R = REACTIVE T = TOTALG = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL". THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY 0 = BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION SPIKE. # = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE. + = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE. = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS) ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION) P = ANALYTICAL (POST DIGESTION) SPIKE. I = DUPLICATE INJECTION. = AUTOMATED S. = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION. F N/C+ = NOT CALCULABLE; N/C\* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION. H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL" Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER. THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS. NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS. (\*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN. (CA) = SEE CORRECTIVE ACTIONS FORM. **\*\*= MATRIX INTERFERENCE** SW-846, 3rd Edition, latest revision EPA 600/4-79-020, Revised March 1983. STANDARD METHODS, For the Examination of Water and Wastewater, 18TH ED., 1992 NIOSH Manual of Analytical Methods, 4th Edition. ANNUAL BOOK OF ASTM STANDARDS, VOLUME 11.01, 1991. METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993 1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LCGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE 2 PH SAMPLE AND DUPLICATE ANALYSIS. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS. IF FLASHPOINT IS LESS THAN 25 3. FLASHPOINT. DEGREES CELSIUS, THE DETECTION LIMIT BECOMES THE INITIAL STARTING TEMPERATURE . RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION). RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES. DPH = DOLLY P. HWANG SG = SCOTT GRESHAM RB = REBECCA BROWNJL = JAN LECLEAR NSB = NANCY S. BUTLER MM = MIKE MCKENZIE ED = ESTHER DANTIN RH = RICKY HAGENDORFER AB = ANDY BROTHERTON = CHRISTINE FOSTER CF PLD = PAULA L. DOUGHTYBH = BARRY HICKS

Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date: Sample Dup	SILVER A6T050 <0.01 6010 3010 19-SEP-96 19-SEP-96 lication	"Metals Qu ARSENIC R6T050 <0.05 6010 3010 19-SEP-96 19-SEP-96	Hality Cont BARIUM B6T050 <0.01 6010 3010 19-SEP-96 19-SEF- 5	rol Report" CADMIUM C6T050 <0.005 6010 3010 19-SEP-96 19-SEP-96	CHROMIUM H6T050 <0.01 6010 3010 19-SEP-96 19-SEP-96	MERCURY M7T047 <0.002 7470 7470 24-SEP-96 24-SEP-96
Sample Dup:	609221-1	609221-1	609221-1	609221-1	609221-1	609340-1
Rept Limit:	<0.01	<0.05	<0.01	<0.005	<0.01	<0.002
Sample Result: Dup Result: Sample RPD: Max RPD: Dry Weight%	1.7 1.7 0 20 N/A	1.9 2.0 5 20 N/A	3.5 3.6 3 20 N/A	1.9 1.9 0 20 N/A	1.9 1.9 0 20 N/A	0.050 0.051 20 N/A
Matrix Spil	ke					
Sample Spiked:	609221-1	609221-1	609221-1	609221-1	609221-1	609340-1
Rept Limit:	<0.01	<0.05	<0.01	<0.005	<0.01	<0.002
Sample Result:	<0.01	<0.05	1.7	0.008	<0.01	<pre>&lt;3.002 3.350 3.350 1.00 1.00 75-125 N.A</pre>
Spiked Result:	1.7	1.9	3.5	1.9	1.9	
Spike Added:	2.0	2.0	2.0	2.0	2.0	
% Recovery:	85	95	90	95	95	
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	
Dry Weight%	N/A	N/A	N/A	N/A	N/A	
ICV						
ICV Result:	5.0	4.8	5.0	5.0	5.0	3.3041
True Result:	5.0	5.0	5.0	5.0	5.0	3.3040
% Recovery:	100	96	100	100	100	103
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	80-120
LCS						
LCS Result:	1.8	2.0	2.3	2.0	2.1	0.0049
True Result:	2.0	2.0	2.3	2.0	2.0	0.0050
% Recovery:	90	100	100	100	105	98
% Rec Limits:	80-120	80-120	80-120	30-120	90-120	80-120

O.K. W alzuku

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MELAIS OUATILY CONLIDE REDUIC	"Metals	Ouality	Control	Report
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Parameter:	LEAD	SELENIUM
Batch Id:	P6T050	S6T050
Blank Result:	<0.05	<0.1
Anal. Method:	6010	6010
Prep. Method:	3010	3010
Analysis Date:	19-SEP-96	19-SEP-96
Prep. Date:	19-SEP-96	19-SEP-96
Sample Dup	lication	
Sample Dup:	609221-1	609221-1
Rept Limit:	<0.05	<0.1
Sample Result:	1.8	2.0
Dup Result:	1.9	2.0
Sample RPD:	5	0
Max RPD:	20	20
Dry Weight%	N/A	N/A
Matrix Spi	ke	
Sample Spiked:	609221-1	609221-1
Rept Limit:	<0.05	<0.1
Sample Result:	<0.05	<0.1
Spiked Result:	1.8	2.0
Spike Added:	2.0	2.0
% Recovery:	90	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A
ICV		
ICV Result:	5.2	5.1
True Result:	5.0	5.0
% Recovery:	104	102
% Rec Limits:	90-110	90-110
LCS		
LCS Result:	2.0	2.0
True Result:	2.0	2.0
% Recovery:	100	100
% Rec Limits:	80-120	80-120



### "Quality Control Comments"

				atch	Id:	Comments:	
A6T050	ANALYST: JR						
A6T050 R6T050	The results reported ANALYST: JR	under	"Sample	Duplication"	are	the	MS/MSD.
R6T050 B6T050	The results reported ANALYST: JR	under	"Sample	Duplication"	are	the	MS/MSD.
B6T050 C6T050	The results reported	under	"Sample	Duplication"	are	the	MS/MSD.
C6T050 H6T050	The results reported	under	"Sample	Duplication"	are	the	MS/MSD.
H6T050 M7T047	The results reported	under	"Sample	Duplication"	are	the	MS/MSD.
M7T047 P6T050	The results reported	under	"Sample	Duplication"	are	the	MS/MST.
P6T050	The results reported	under	"Sample	Duplication"	are	the	MS/MSD.
S6T050	The results reported	under	"Sample	Duplication"	are	the	MS/MSD.

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----- Common Footnotes Metals -----N/A = NOT APPLICABLE.N/S = NOT SUBMITTED. N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY. N/D = NOT DETECTED.DISS. OR D = DISSOLVED T & D = TOTAL AND DISSOLVED R = REACTIVEт = TOTAL G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL". Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE. = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
 = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE. # = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS) = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO ٦) DIGESTION) = ANALYTICAL (POST DIGESTION) SPIKE. Ρ = DUPLICATE INJECTION. Т & = AUTOMATED  $F = SAMPLE SPIKED > 4 \times SPIKE CONCENTRATION.$ N/C+ = NOT CALCULABLE N/C\* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION. H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL". Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS. NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS. (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM. U = (FLORIDA DEP 'U' FLAG) - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. S = METHOD OF STANDARD ADDITIONS (MSA) WAS PERFORMED ON THIS SAMPLE.FROM ANALYSIS REPORT: RL= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES. O= OUALIFIER (FOOTNOTE) FROM QUALITY CONTROL REPORT: RPD= RELATIVE PERCENT DEVIATION. RPT LIMIT - REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES. NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE REPORTED ON AN AS RUN BASIS. SW-846, 3rd Edition, latest revision. EPA 600/4-79-020, Revised March 1983. NIOSH Manual of Analytical Methods, 4th Edition. Standard Methods For the Examination of Water and Wastewater, 18th Edition, 1992. Methods For the Determination of Metals in Environmental Samples - Supplement I, EPA 600/R-94-111, May 1994. JR = JOHN REEDGJ = GARY JACOBS JLH = JAMES L. HERED CD = CHRISTY DRAPER LV = LASSANDRA VON APPEN

American Environmental Network Albuquerque, New Mexico

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tomomes ATL abe: San Diene (R10) 458 0141 + Disonaly (R02) 406 4400 + Sentile (206) 228 8335 + Descapela (004) 474 1001 + Destland (503) 681 0147 + Albuquerque (505) 344 3777 DISTRIBUTION White Canary - ATL Pink - ORIGINATE

Analy Ical Technologies of New Mexico, Inc., Albuquerque, NM San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque • Anchorage

Chiral OF CUSTODY



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10/30/95 ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Seattle (206) 228 8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777 DISTRIBUTION White Canary - ATI Pink • ORIGINAT

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### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

October 3, 1996



Dear Mr. Cosby:

The New Mexico Oil Conservation Division (OCD) has received the EPFS letter dated October 1, 1996 requesting that the OCD allow EPFS to spread a non-exempt/non-hazardous filter media. The OCD hereby approves of the spreading of this non-exempt/non-hazardous Filter Media for the beneficial use at the EPFS Chaco plant within the facility area, subject to the following condition.

• EPFS will provide better copies of the sample analysis to the Santa Fe and Aztec OCD offices within one week of receipt of this letter.

Note, that OCD approval does not relieve EPFS of liability should EPFS operation's result in contamination of surface waters, ground waters or the environment. OCD approval does not relieve EPFS from compliance with other Federal, State, and Local Regulations/Rules that may apply.

Sincerely,

CHAP

Patricio W. Sanchez, Petroleum Engineering Specialist Environmental Bureau

XC: Mr. Denny Foust - Aztec District Office



P.O. Box 4990 Farmington, NM 87499

Pat Sanchez New Mexico Oil Conservation Division 2040 South Pacheco P.O. Box 6429 Santa Fe, New Mexico Date: October 1, 1996

007 2 1996

Environmental Euroau Oil Conservation Division

RE: Filter Media GW-71, Chaco Plant

Mr. Sanchez,

EPFS requests approval to use the filter media as described in our letter dated August 9, 1996 as road base within the plant yard facility.

EPFS submits the following analytical results from the filter media. The sample was tested for Ignitability (Flashpoint), Reactivity, Corrosivity (pH) and TCLP RCRA Metals. Enclosed for your review is a copy of the results. The analysis results indicate levels are below regulatory limits.

Sincerely,

ala

Ricky D. Cosby Compliance Specialist

cc: Denny Foust, Aztec NMOCD encl.

bc: Ray Maldonado (EPFS) w/o attachments Mike Hanson (EPFS) w/o attachments Roy Fagan (EPFS) w/o attachments File Chaco Required attachments

### September 30, 1996

RECE OCT 2 1995

Cii Conservation Division

## **ANALYTICAL REPORT**

# Chaco Plant Multimedia Inlet Water Filter Filter Media Lab Sample # 960744 Sampled 9/9/96 Sampled by Bob Heath

#### **REMARKS:**

The sample was collected/tested in order to determine disposal characteristics for this material. The sample was tested for Ignitability (Flashpoint), Reactivity, Corrosivity (pH) and TCLP RCRA Metals. Results of the analysis indicate that this material is not a characteristic hazardous waste for the components tested.

**Distribution:** 

David Bays Rick Cosby Al Marruffo Mike Hanson Results Log Book



OLL CONSERVATION DIVISION 2040 South Pecheco Street Santa Fe, New Mexico 87505 (505) 827-7131

August 21, 1996

CERTIFIED MAIL RETURN RECEIPT NO. P-288-258-602

Mr. Ricky Cosby Compliance Specialist El Paso Field Services (EPFS) P.O. Box 4990 Farmington, NM 87499

RE: Filter Media GW-71, Chaco Plant San Juan County, NM

Dear Mr. Cosby:

The New Mexico Oil Conservation Division (OCD) has received the EPFS letter dated August 9, 1996 requesting that OCD allow EPFS to spread water filtration media. The OCD cannot approve of this onsite spreading of the media for the following reasons:

- 1. The media is non-exempt from RCRA Subtitle C regulations as defined in 40 CFR Part 261. Therefore the media needs to be characterized for hazardous constituents in terms of TCLP Constituents of Concern. and Reactivity, Ignitability, and Corrosivity. All the media can not be a listed hazardous waste as defined in 40 CFR Part 261 (F, K, P, and U)
- The spreading of the media must also not cause WQCC Standards as defined in 3103 A. B, and C to be exceeded, and cannot contain constituents that will cause WQCC 1101.TT Toxic pollutant levels to be exceeded.

However, if EPFS wishes to sample and characterize the filter media per points (1.) and (2.) above and can show that neither will be exceeded, then the OCD should be able to approve of the spreading of the filter media at Chaco Plant.

Note: EPFS also has the option of off-site disposal at an OCD approved facility.

Sincerely,

Patricio W. Sanchez Petroleum Engineer. Environmental Bureau

XC: Mr. Denny Foust - Environmental Geologist

AEN I.D. 609322

September 27, 1996

El Paso Field Services P.O. Box 4990 Farmington, NM 37499

> Multimedia Filter Mulia EPES Lars ED #960744

Project Name/Number: CHACO FILTER N/A

Attention: John Lambdin

On 09/11/96, American Environmental Network NM), Inc., ADHS 4/90 License No. AZCO15) received a request to analyze non-aqueous and aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

All analyses were performed by American Environmental Network (FL) Inc., 11 east East Olive Road, Pensacola, FL.

If you have any questions or comments, please do not hesitate to contact us at 805 344-3777.

KINAL

Kimberly D. McNeill Project Manager

MR:Ét

Enclosure



H. Mitchell Rubenstein, Ph.D. General Manager



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CLIENT		EL PASO	FIELD	SERVICES	DATE R	ECEIVED	:09/11/96
PROJECT #	ŧ	: N/A					
PROJECT N	IAME	: CHACO FI	LTER		REPORT	DATE	:09/27/96

		AEN ID: 609322		
	AEN ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	609322-01 	960744 960745	NON-AQ	09/09/96 09/10/95

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Multimerica Filter india

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---TOTALS---

MATRIX	#SAMPLES
NON-AQ	1
AQUEOUS	1

### AEN STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

### "FINAL REPORT FORMAT - SINGLE"

Accession: Client: Project Number: Project Name: Project Location: Test: Matrix: QC Level:	609300 AMERICAN 609322 EPFS N/S HAZARDOU SOLID II	I ENVIRONMENT JS WASTE EVAL	FAL NETWORK	OF NEW	MEXICO			
Lab ID: Client Sample Id:	001 609322-0	)1		Sampie Receiv	Date/Tin ed Date:	ie:	09-SEP-96 13-SEP-96	1345
Parameters:		Units:	Results:	Rpt	lmts:	Q :	Batcn:	Analyst:
FLASHPOINT (1010) CYANIDE, REACTIVE SULFIDE, REACTIVE PH (9045)	(9010) (9030)	DCENTI MG/KG MG/KG UNITS	>100 :70 :70 :70	25 5.25 MA			FPX041 RCM032 RSM032 PHS186	SG JL JL MM

Comments:

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#### "Method Report Summary"

Accession Number: Client: Project Number: Project Name: Project Location: Test:	609300 AMERICAN ENVIRONMENTAL NETWORK OF 1 609322 EPFS N/S HAZARDOUS WASTE EVALUATION	NEW MEXICO	
Client Sample Id:	Parameter:	Unit:	Result:
609322-01	FLASHPOINT (1010) PH (9045)	DCENTI UNITS	>100 7.9

#### "FINAL REPORT FORMAT - SINGLE"

Accession:       609300         Client:       AMERICAN ENVIRONMENTAL NETWORK OF NEW MEXICO         Project Number:       609322         Project Name:       EPFS         Project Location:       N/S         Test:       TCLP HAZARDOUS WASTE EVALUATION, METALS         Matrix:       NON-AQUEOUS LEACHATE         QC Level:       II											
Lab Id: Client Sample Id:	003 609322-01		Sample Date/Time: Received Date:	09-SEP-96 13-SEP-96	1345						
Parameters:	Units:	Results:	Rpt Lmts: 1:	Satch:	Analyst:						
SILVER, TCLP (6010	0) MG/L	:5	3.31	A6T050	JR						
ARSENIC, TCLP (60)	10) MG/L	:5	0.05	R6T050	JR						
BARIUM, TOLP (6010	) MG/L	<u> </u>	· · · ·	B6T050	JR						
CADMIUM, TCLP (601	$10$ $HG_{\ell}L$		1.005	267050	JR						
CHROMIUM TOLP (60		·		HATCSO	79						
MERCIRY TOP (713	70) MG/L			177047	1.7						
T = T = T = T = T = T = T = T = T = T =	MG/I			267050	10						
SELENTEL SCID (6)			· · · · ·	227050	70						
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#### "Method Report Summary"

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Accession Number: Client: Project Number: Project Name: Project Location: Test:	MEXICO S		
Client Sample Id:	Parameter:	Unit:	Result:
609322-01	BARIUM, TCLP (6010)	MG/L	1.4

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Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	FLASHPOINT FPX041 >25 1010 N/A 18-SEP-96 18-SEP-96	"WetChem RE-CN RCX032 <0.25 9010 N/A 24-SEP-96 24-SEP-96	Quality Con RE SULFIDE RSX032 <5 9030 N/A 24-SEP-96 :24-SEP-96	trol Report PH PHS186 N/A 9045 N/A 13-SEP-96 13-SEP-96
Sample Dup	lication			
Sample Dup: Rept Limit:	609166-1 >25	609377-2 <0.25	609377-2 <5	609300-1 N/A
Sample Result: Dup Result: Sample RPD: Max RPD: Dry Weight%	<25 <25 N/C+ >25 N/A	<0.25 <0.25 N/C 0.25 N/A	<5 <5 11/ C 5 11/ A	7.90 7.80 0.10 0.12 N/A
Matrix Spił	(e			
Sample Spiked: Rept Limit:	N/A >25	N/A N/A	N/A N/A	N/A N/A
Sample Result: Spiked Result: Spike Added: % Recovery: % Rec Limits: Dry Weight%				
ICV			, <b></b>	
ICV Result: True Result: % Recovery: % Rec Limits:		2.13 2.00 109 90-110	13.24 20.00 91 90-110	9.95 10.30 100 90-110
LCS				
LCS Result: True Result: & Recovery: & Rec Limits:	25 27 104 96-104			6.97 6.37 101 97-103



"Quality Control Comments"

Batch Id: Comments:

FPX041 FPX041

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609411-1, 609186-1, 609188-1, 609300-1, 609388-1, 609425-1,2 WERE ADDED TO BATCH ON 9/20/96. ÷.

----- Common Footnotes WetChem -----N/A = NOT APPLICABLE. N/S = NOT SUBMITTED. N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY. N/D = NOT DETECTED.DISS. CR D = DISSOLVED T & D = TOTAL AND DISSOLVED R = REACTIVE T = TOTAL T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE. THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) UPIKE.
= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
= ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
= ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. DILUTION PRIOR TO INNUVSIS) TO ANALYSIS) # = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION) = ANALYTICAL (POST DIGESTICN) 3PIXE. = DUPLICATE INJECTION. Э % = AUTCMATED F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION. N/C+ = NOT CALCULABLE N/C\* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION. H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE REDULTS ENCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE 'DUT OF CONTROL". A = SAMPLE AND DUPLICATE RESULTS ARE 'DUT OF CONTROL". C = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS. NH= SAMPLE AND / CR CUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". 2 = AUTCMATED \*) = DETECTION LIMITS RAISED DUE TO DLF METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
 CA) = SEE CORRECTIVE ACTIONS FORM.
 \*\* = MATRIX INTERFERENCE SAMPLE IS NON-HCMOGENEOUS. SW-846, 3rd Edition, latest revision EPA 600/4-79-020, Revised March 1983. STANDARD METHODS, For the Examination of Mater and Wastewater, 18TH ED., 1992 NIOSH Manual of Analytical Methods, 4th Edition. ANNUAL BOOK OF ASTM STANDARDS, VOLUME 11.01, 1391. METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600, R-93/100, AUGUST 1993 COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
 PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
 FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS. IF FLASHPOINT IS LESS THAN 05 DEGREES CELSIUS. THE DETECTION LIMIT BECOMES THE INITIAL STARTING THEMPERATURE TEMPERATURE. RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION). RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES. SG = SCOTT GRESHAM DPH = DOLLY P. HWANG RB = REBECCA BROWN NSB = NANCY S. BUTLER ED = ESTHER DANTIN MM = MIKE MCKENZIE AB = ANDY BROTHERTON JL = JAN LECLEAR CF = CHRISTINE FOSTER RH = RICKY HAGENDORFER BH = BARRY HICKS PLD = PAULA L. DOUGHTY

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"Metals Quality Control Report"												
Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	SILVER A6T050 <0.01 6010 3010 19-SEP-96 19-SEP-96	ARSENIC R6T050 <0.05 6010 3010 19-SEP-96 19-SEP-96	BARIÚM B6T050 <0.01 6010 3010 19-SEP-96 19-SEP-96	CADMIUM C6T050 <0.005 6010 3010 19-SEP-96 19-SEP-96	CHROMIUM H6T050 <0.01 6010 3010 19-SEP-96 19-SEP-36	MERCURY M7T047 <0.002 7470 7470 24-SEP-96 24-SEP-96						
Sampie Dup	lication											
Sample Dup: Rept Limit:	609221-1 <0.01	509221-1 -0.05	509221-1 700.01	509221-1 0.005	609221-1  <0.01	609340-1 <0.002						
Sample Result: Dup Result: Sample RPD: Max RPD: Dry Weight%	1.7 1.7 0 20 N/A	1.3 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10		1.3 1.9 0 20 N/A	1.9 1.9 3 20 N/A	2.050 2.051 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.						
Matrix Spil	ke											
Sample Spiked: Rept Limit:	609221-1 <0.01	(609221-1 (+0.05	609201-1 0.01	609221-1 0.005	509321-1 -0.01	E19340-1 ; 						
Sample Result: Spiked Result: Spike Added: % Recovery: % Rec Limits: Dry Weight%	<0.01 1.7 2.3 85 75-125 N/A	<0.05 1.9 95 75-125 11 A	1.5 2.5 2.5 7E-123 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	).308 1.9 2.3 95 75-125 1/A	0.01 1.9 2.0 95 75-125 N A	<0.002 1.050 1.150 1.150 1.15 1.15 1.125						
ICV Result: True Result: & Recovery: & Rec Limits:	5.0 5.0 100 90-110	4.8 (5.0 96 (90-110	5.0 5.0 100-110	5.0 5.0 100 90-110	5.0 5.3 100 90-110	2.0041 2.0040 203 20-120						
LCS												
LCS Result: True Result: % Recovery: % Rec Limits:	1.8 2.0 90 30-120	2.0 2.0 100 30+120	2.5 2.5 2.5 2.5 2.5	1.0 2.0 100 30-120	2.1 2.3 105 30-120	0.0049 0.0050 93 90-120						

O. NC Al zulhi

Parameter: Batch Id: Blank Result: Anal. Method: Prep. Method: Analysis Date: Prep. Date:	LEAD P6T050 <0.05 6010 3010 19-SEP-96 19-SEP-96	"Metals SELENIUM S6T050 <0.1 6010 3010 19-SEP-96 19-SEP-96	Quality	Control	Report"
Sample Dup	lication				
Sample Dup: Rept Limit:	609221-1 <0.05	609221-1 <0.1	<u>!</u>		
Sample Result: Dup Result: Sample RPD: Max RPD: Dry Weight%	1.8 1.9 5 20 N/A	2.0 2.0 2.0 2.0 20 N/A	-		
Matrix Spil	ke		_		
Sample Spiked: Rept Limit:	609221-1 <0.05	=09221-1  <0.1	_		
Sample Result: Spiked Result: Spike Added: % Recovery: % Rec Limits: Dry Weight%	<0.05 1.8 2.0 90 75-125 N/A	<0.1   2.0   100   75-125   N.A	_		
ICV		<u> </u>	-		
ICV Result: True Result: % Recovery: % Rec Limits:	5.2 5.0 104 90-110	5.1 5.0 102 90-110	-		
LCS			_		
LCS Result: True Result: % Recovery:	2.0 2.0 100 30-100	2.9 2.0 100 70-100	-		

C.12 Q G.11-14

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#### "Quality Control Comments"

				Ba	atch	Id:	Comments:
367050	The results reported	under	"Sample	Duplicar:on"	are	the	MS/MSD.
R6T050	ANALYST: JR		04	Duştitutit			
R6T050	The results reported	under	"Sample	Duplication"	are	the	MS/MSD.
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----- Common Footnotes Metals -----N/A = NOT APPLICABLE.N/S = NOT SUBMITTED.N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATL REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY. N/D = NOT DETECTEDDISS. OR D = DISSOLVED T & D = TOTAL AND DISSOLVED R = REACTIVE Т = TOTAL T = TOTAL
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 J = FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.
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American Environmental Network Albuquerque, New Mexico

# ل 04300 Interlab Chain of Custody

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P.O. Box 4990 Farmington, NM 87499

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Received

Patricio Sanchez Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505 SEP 1 6 1996

Environmental Bureau Cil Conservation Division Date: September 11, 1996

**RE: Chaco Plant Sump Inspection** 

#### Pat,

During the annual El Paso Field Services (EPFS) shutdown at the Chaco Plant facility the following sumps were inspected.

Name	Description	Contents	Test	Status
A Gas Compressor Sump 1	Cylindrical Metal With Leak Detection	Oil & Water From A Gas Compressor	Hydrocarbon/ Water interface meter	Pass
A Gas Compressor Sump 2	Cylindrical Metal With Leak Detection	Oil & Water From A Gas Compressor	Hydrocarbon/ Water interface meter	Pass
B Gas Compressor Sump	Cylindrical Metal	Oil & Water From B Gas Compressor	Hydrocarbon/ Water interface meter - liquid level monitoring	Pass
Oil Classifier System Process Oil Skimmer Tank	Below Grade Double Wall With Leak Detection	Oil & Water From A & B Amine Gasoline Plant	Visual	Fail
Oil Classifier System Lube Oil Skimmer Tank	Below Grade Double Wall With Leak Detection	A & B Compressor Sumps	Visual	Pass
Oil Classifier System Processor Water Skimmer Tank	Below Grade Double Wall With Leak Detection	Water Phase of Process & Lube Oil Skimmer Tanks	Visual	Pass

The Oil Classifier Process Oil Skimmer Tank was inspected visually from the leak detection ports and was found to have an oil level. The liquids found in the detection area were pumped into a truck and the detection area was again checked for leaks. At this stage no leaks were observed. The liquids were then emptied into the liquid receiving section of the tank. This caused a rise in the tank level. The detection area was again checked and a leak was detected in a welded area where the 8" receiving inlet is joined to the inner tank wall. No signs of leakage were observed from the outer containment wall. Arrangements for the repair of The Process Oil Tank are currently in progress and will be resolved in a timely manner. A completion report of the repairs will subsequently follow.

SEP 1 6 1996

Environmental Bureau Cil Conservation Division

Sincerely,

and A. Cerly

Ricky D. Cosby Compliance Specialist

cc: Sandra Miller Mike Hanson Roy Fagen Denny Foust (NMOCD Aztec)

file: Chaco Plant Regulatory



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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



The New Mexico Oil Conservation Division (OCD) has received the EPFS letter dated August 9, 1996 requesting that OCD allow EPFS to spread water filtration media. The OCD cannot approve of this onsite spreading of the media for the following reasons:

- 1. The media is non-exempt from RCRA Subtitle C regulations as defined in 40 CFR Part 261. Therefore the media needs to be characterized for hazardous constituents in terms of TCLP Constituents of Concern, and Reactivity, Ignitability, and Corrosivity. All the media can not be a listed hazardous waste as defined in 40 CFR Part 261 (F, K, P, and U)
- 2. The spreading of the media must also not cause WQCC Standards as defined in 3103 A, B, and C to be exceeded, and cannot contain constituents that will cause WQCC 1101.TT Toxic pollutant levels to be exceeded.

However, if EPFS wishes to sample and characterize the filter media per points (1.) and (2.) above and can show that neither will be exceeded, then the OCD should be able to approve of the spreading of the filter media at Chaco Plant.

Note: EPFS also has the option of off-site disposal at an OCD approved facility.

Sincerely

Patricio W. Sanchez Petroleum Engineer, Environmental Bureau

XC: Mr. Denny Foust - Environmental Geologist



P.O. Box 4990 Farmington N.M. **8749**9

Pat Sanchez New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088 Date: August 9, 1996

## RECEIVED

AUG 1 9 1996

Environmental Bureau Oil Conservation Division

Mr. Sanchez,

El Paso Field Services' Chaco Plant is planning to replace the existing inlet water filtration system due to internal piping and vessel corrosion. All material used in the filtration system is an inert, unregulated solid. The existing filter media consists of graduated layers of sands, gravel and carbon (anthracite coal). Filtration consists totally of a physical process to remove suspended solids from river water supplied from the Blanco pond. No chemical additives are used.

EPFS requests approval to use this filter media as road base within the plant yard facility. The original installation of the inlet filtration system occurred in the late 1950's and no material data sheet is available.

EPFS plans to remove this system during the scheduled annual Chaco Plant shutdown scheduled September 09,1996.

For any additional information please call (505) 599-2158.

Thank you

Conta

Ricky D. Cosby Compliance Specialist

cc: Denny Foust (NMOCD Aztec) File: Chaco Plant / Regulatory



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

	August 19, 1996	US Postal Service Receipt for Cert	5 335 'j
CERTIFIED MAIL RETURN RECEIPT NO. P-594-835-	<u>305</u>	Sention - David	al Mail(See reverse)
Mr. David Bays Sr. Environmental Scientist El Paso Field Services (EPFS) P.O. Box 4990 Farmington, NM 87499		Post Office, State, & ZIP Code Certified Fee Special Delivery Fee	Caling Tomer \$ 51ndgl.
RE: Cooling Tower Sludge GW-71, Chaco Plant San Juan County, NM		Restricted Delivery Fee Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom, Date, & Addressee's Address TOTAL Postage & Fees	\$
Dear Mr. Bays:		Postmark or Date	

The New Mexico Oil Conservation Division (OCD) has received the EPFS letter dated August 12, 1996 requesting that the OCD allow EPFS to spread the cooling tower sludge onsite. The OCD on August 6, 1993 verbally approved the spreading of this same sludge at the facility, and therefore hereby approves of the spreading of this non-hazardous sludge at the EPFS Chaco plant on a road way within the facility fence.

Note, that OCD approval does not relieve EPFS of liability should EPFS operation's result in contamination of surface waters, ground waters or the environment.

Sincerely,

Koger (

Roger C. Anderson Environmental Bureau Chief

XC: Mr. Denny Foust - Environmental Geologist MEMORANDUM OF MEETING OR CONVERSATION

Date **8-15-96** 8:00 AM Time Telephone Personal Originating Party Other Parties Pat Sunchez Mr. David -OLD Bays from 8-14-96 (Returning Call m Subject from 199h the 12 requesting Juan to zav dous radium m Tower ۵ Plant site Chalo U the Discussion TL ìf E askr. Davi 60 SIndre the Said SINCAC 1+1. or n + 90 10 DO liqui RT Vuv +5 RC Davi Said he the -Sr about had SINdar was he Sa an OUNote: `WC ba DAS G( cordina toour EPN from tyl 1993 letter dи 6 Parid T anarc his ana 012 Sludg らチとり ~ple 54! is CKa. Mas over Su Knowledge that Conclusions or Agreements 04 and procl55 Base Said Draft 9 Un! RLA for SINV 00 nc Ŧ a/50 1. ther with date above Renading ication has na 1515 File, RCA, Denny Fonst Signed <u>Distribution</u>

STATE OF NEW MEXICO OIL CONSERVATION DIVISION



August 12, 1996

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New Mexico Oil Conservation Division Attn: Mr. Pat Sanchez 2040 S. Pacheco Santa Fe. NM 87505

Dear Mr. Sanchez:

El Paso Field Services Co. (EPFS) has scheduled the annual shut down for our Chaco Plant to begin on September 9, 1996. As required by the Discharge Plan, number GW-71, during the shut down we will drain, clean and inspect the basins of the three plant cooling towers.

The sludge from the cooling towers was characterized prior to the 1995 shut down, and found to be free of any RCRA regulated component. The waste stream has not been modified in any way since that analysis (a copy is attached for your reference). Based on the characterization of this waste stream, EPFS proposes to spread the solid material on a road way within the plant fence. The liquid waste from the cooling towers will be placed in the contact waste water ponds.

If you need any more information, please call me at (505) 599-2256.

Sincerely yours,

and Bay

David Bays, REM Sr. Environmental Scientist

cc: Mr. Denny Foust- NMOCD - Aztec S. D. Miller/J. Sterrett/Chaco Gen. File



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AUG 1 5 1996

Environmental Bureau Oil Conservation Division

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ANALYTICAL & ENVIRONMENTAL CHEMISTS 4813 PACIFIC HEGHWAY EAST, TACOMA, WASHINGTON SHAP - TELETHONE (201)22-4210 - FAX (201)22-5047

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Çadmium	DN	0.005 1	.0
Chromium Taom	0.33	0.01 5	
Lead Selenium	ND	1.0 1	0
Silver	ND	9.01 5	.0
Mercury	by Cold Vapor AA Pe Date Analyzed:	r EPA Method 7470 5-5-95	
	Units: mg/	L	
Parameter	Result	FOL Max	lonc.
Mercury	ND	0.002	).2
I	1		
ND - Not Detecte POL - Practical Q	d uantitation Limit		
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	mant to whom it is addressed. This ishorebow as	the day period and the day period	isses of enalysis in
	Mani in a second a second second state and reported in		

Client Name		i		Philip Environmental Laboratory
Client ID:		ļ		950511 95-A7081
Lab ID:		}		48312-01
Date Received:		1	:	4/28/95
Date Prepared:	[			5/8/95
Date Analyzed:				5/9/95
% Solids	ł			•

#### TCLP Volatile Organics by USEPA Method 8240

· .		i i	Recovery Limits		
Surrogate 1,2-Dichloroethane-d4 Toluene-d8 Promofic orobonzeno .	1 % Recovery 07 91 102	Flags	Low High 76 114 38 110 36 115		
	: :	i			
Anaivte	Result (ma/L)	PaL	flags.		
Vinyi Chlonde 1,1-Dichioroethene Chloroform 1,2-Dichioroethane 2-Butanone (MEIQ Carbon Tetrachloride		C.2 D.1 C.1 C.1 C.1 C.1 C.1			
Trichioroethene Benzene Tetrachioroethene Chlorobenzene		0.1 C.1 E 0.1 0.1			
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107-10-82 WON 15:14

Client Name Client ID: Lab ID: Date Received: Date Prepared: Date Analyzed: % Solids

#### Philip Environmental Laboratory 950511 95-A7081 48312-01 4/28/95 5/9/95 5/11/95

#### TCLP Semivolattle Organics by USEPA Method 8270

<b>B</b>			Recovery Limits		
Burrogate	% Recovery	Flags	Low	High	
Nitropenzene - d5	87	,	35	1.4	
2 • Fluorobipheny)	5 <b>8</b> ·		43	118	
p • Tarpnenyi - d14	87		33	141	
Phenol - d5	53 (		10	94	
2 - Eluorophenoi	c7		21	100	
2,4,8 - Tribromophenol	53	· · ·	10	23	

. •	' Result		
Analyte	(mg/L)	POL	Fisos
1,4-Dichlorobenzene	ND	0.01	1.1834
2-Methylphenol	ND ND	0.01	
3 & 4-Methylphener	ND	0.01	
Hexachlorcethane	ND	0.01	
Nitrobenzene	ND	0.01	
Hexachlorcoutadiene	ND	10.01	
2,4,6-Trichterophenot	ND	0.01	
2:4,5-Trichloroonenoi	ND	0.01	
2,4-Dinitrotoluene	ND	0.01	
-exachloropenzena	ND	0.01	
Pentachlurophenol	ND	0 05	
Pyridine	ND	0.01	
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Philip Environmental Laboratory Project: EPNG Company Lab No. 48312 May 12, 1995

Lab Sample No. 48312-2

Client ID: 950512 95-A7082

Chaco Plant

Cooling Toward

3

101-10-82 NON 12:13

Toxicity Characteristic Leaching Procedure (TCLP) Method 1311 ICP Metals by EPA Method 6010 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L

Parameter	Result	POL	Max Conc.
Arsenic Barium Cadmium Chromium Lead Selenium	0.23 0.93 ND 0.48 0.10 ND	0.10 0.005 0.005 0.01 0.05 1.0	5.0 100.0 1.0 5.0 5.0
Silver	u	0.01	

#### Hercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed, 5-5-35 Units: mg/L

Parameter		<u>R</u>	<u>esult</u>	POL	Max Conc.
Mercury	i	;	no -	0.002	0.2

ND: - Not Detected PQL - Practical Quantitation Limit

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FAX NO.' 2069222310

s report - sweet volety for the use of the person or company to whom it is notremed. This laboratory eccepts responsibility only for the due performance of analysis in accordance with is system. In so event shall Sound Analytical Sources, fac, on its improve to responsible for consequential or special damages in any tind or in any stillent.

SOUND ANALYTICAL

# Sound Analytical Services, Inc.

Client Name ' Client ID: Lab ID: Date Received: Date Prepared: Date Analyzed: % Solids

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#### Philip Environmental Laboratory 950512 95-A7082 48312-02 4/28/95 5/9/95!

#### TCLP Volatile Organics by USEPA Method 8240

:		, i	Recove	iry Limits
Surrogate	% Recovery	Flags	Low	High
1,2-Dichloroetnane-04	94 -		76	114
Toluene-d8	94		88	110
Bromofluorobenzene	87		36	115

Result		
(mg/L)	PQL	Flags
ND	0.2	
ND	0.1	
ND	0.1	
NO .	0.1	
D	0.1	
ND	0.1	
ND	0.1	
, ND	0.1	
См	0.1	
ND	0.1	
	No (mg/L) ND ND ND ND ND ND ND ND ND ND ND ND ND	Result         PQL           ND         0.2           ND         0.1           ND         0.1

FAX NO.<sup>1</sup> 206922310

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Client Name Client ID: Lab ID: Date Received: Date Prepared: Date Analyzed: % Solids

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Philip Environmental Laboratory 950512 95-A7082 48312-02 4/28/95 5/9/95 5/11/95

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#### TCLP Semivolatile Organics by USEPA Method 8270

		1	Recovery Limits		
Surrogate Nilropenzene - d5	% Recovery 68	Flage	Low 35	High 114	
2 - Fluorobiphenyl	70		43	116	
P - Terprenyr - 014 Phenol - d5	85 i 60 ·	,	33	141	
2 - Fluorophenol	65		21	100	
2.4.6 - Tribramophenol	54	; •	10	123	

	Result		
Analyte	( <b>mg/L</b> )	PQL	Flags
1,4-Dichloropenzene	ND	0,01	
2-Methylphenol	ND	0.01	
3 & 4-Methylphenol	DK	0.01	
Hexachloroetnane	ND	0.01	
Nitrobonzone	ND	0.01	
-lexachicrobutadiene	ND	0.01	
2,4,6-Trichlorophenol	' ND	U.01	
2,4,5-Trichlorophenol	<b>DN</b>	0.01	
2,4-Dinitrotoluone	ND ,	C.01	
-lexachloropenzene	ND	0.01	•
Pentachiorophenei	ND	0.05	
Pyridine	ND	0.01	

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2069222310

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SOUND ANALYTICAL

167-10-3P WON 15:19

Philip Environmental Laboratory Project: EPNG Company Lab No. 48312 May 12, 1995

Chaco Plant

Lab Sample No. 48312-3

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115 001 inetry • Client ID: 950513 95-A7083

Toxicity Characteristic Leaching Procedure (TCLP) Method 1311 ICP Metals by EPA Method 5010 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L

Parameter	Result	POL	Max Conc.
Arsenic	0.22	0.10	5.0
Barium	0.55	0.005	100.0
Cadmium	ND	0.010	1.0
Chromium	0.05	0.01	5.0
Lead	0.07	0.05	5.0
Selenium	ND	1.0	1.0
Silver	ND	0.01	5.0

#### Mercury by Cold Vapor AA Per EPA Method 7470 Cate Analyzed: 5-5-95 Units: mg/L

Parametar	Result	POL	Max Conc.
Mercury	D:	0.002	0.2

NDI - Not Detected PQL - Practical Quantitation Limit

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d scieby for the use of the nerson or company to whom if is addressed. This informiony scorpts responsibility only for the due performance of annihule in according to with shis gractice. In no event shall Sound Analytical Services. Int. or its employees be responsible for consequential or special distanges in any kind or is any argument.

FAX NO. 206822310

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10F-10-82 HON 15:13

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Client Name	•		Philip Environmental Laboratory
Client ID:			990513 95-A7083
Lab ID:	l i	:	48312-03
Date Received:			4/28/95
Date Prepared:			5/9/95
Date Analyzed:	ł	•	5 <b>/9/95</b>
% Solids			1 -

#### TCLP Volatile Organics by USEPA Method 8240

1	(			ry Limits	
Surrogale 1,2-Dichlorocthene-d4 Toluene-d8 Eromofiuorobonzono	:	% Recovery 94 105. 79 ;	Flags X9	Low 76 88 8 <del>9</del>	High 114 110 115
	i				
د ۱	;		i ,		

	1		
	Result	1	
Analyte	( <b>mg/L)</b>	PQL -	Flags
Vinvi Chloride	ND	0.2	
1.1-Dichlorcethene	ND	, G.1	
Chloroform	ND	0.1	
1.2.Dichlomethane	ND	0.1	
2-Butanone (MEK)	0.11	0.1	
Carbon Tetrachiorice	ND	0.1	
Trichtergeihene	ND	0.1	
Benzene	ND	0.1	
Tetrachlorceinene	ND	0.1	
Chiorobanzana	ND	0.1	

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LAX NO. 206922310	AMALY'I CAL	12:16 <b>200</b> /0	107-10-82 WON

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Client Name Client ID: Lab ID: Date Received: Date Prepared; Date Analyzed: % Solids

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Philip Environmental Laboratory 350513 95-A7083 48312-03 4/28/95 5/9/95 5/11/95

#### TCLP Semivolatile Organics by USEPA Mathod 8270

	,		Kecovery Limite		
Surrogate	% Recovery	Flags	Low	High	
Nitropenzene - d5	60		35	114	
2 - Fluorobiphenvi	81		43	*19	
n - Terphenvi - d14	81	,	33	141	
Bhenol . d5	59		10	<u>94</u>	
	ε2		21	100	
2.4,6 - Tribromaphenoi	12	•	10	123	

1	Result		
Anaivte	(mg/L)	PQL	Flags
1 4-Dichlorobenzana	ND	0.01	
2-Methylphenol	ND	0.01	
3 & 4-Methylphenol	ND	0.01	
Hexachicroethane	ND	0.01	
Nitropenzene	ND	- 0.01	
Hexachloroputaciene	ND	0.01	
2 4 8-Trichlorophenol:	ND	0.01	
7 4 5-Trichlorophenei:	ND	0.01	
2 4-Dinitrotoluers	ND	0.01	
Heyechlorobenzené	ND	0.01	
Pantachiomorandi	ND	0.05	
Pyrigine	ND	0.01	•
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101-10-32 WON 15:10 SOUND ANALYTICAL FAX NO. 2069222310

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TOTAL P.010





August 12, 1996

New Mexico Oil Conservation Division Attn: Mr. Pat Sanchez 2040 S. Pacheco Santa Fe. NM 87505

Dear Mr. Sanchez:

El Paso Field Services Co. (EPFS) has scheduled the annual shut down for our Chaco Plant to begin on September 9, 1996. As required by the Discharge Plan, number GW-71, during the shut down we will drain, clean and inspect the basins of the three plant cooling towers.

The sludge from the cooling towers was characterized prior to the 1995 shut down, and found to be free of any RCRA regulated component. The waste stream has not been modified in any way since that analysis (a copy is attached for your reference). Based on the characterization of this waste stream, EPFS proposes to spread the solid material on a road way within the plant fence. The liquid waste from the cooling towers will be placed in the contact waste water ponds.

If you need any more information, please call me at (505) 599-2256.

Sincerely yours,

)auil Bay

David Bays, REM Sr. Environmental Scientist

cc: Mr. Denny Foust- NMOCD - Aztec S. D. Miller/J. Sterrett/Chaco Gen. File



AUG 1 5 1996

Environmental Bureau Oil Conservation Division

ANALYTICAL & ENVIRONMENTAL CHEMISTS 4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON SHAR - TELEPHONE (201)224010 - FAX (201)224017

ANALYSIS: Chace Plan A freing Lab Sample No. 48312-1 Client ID: 950511 95-A7081 Toxicity Characteristic Leaching Procedure (TCLP) Method 1211 ICP Metals by EPA Method 6010 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L Paraméter Arsenic 0.19 0.10 5.0 Sarium 0.65 0.005 100.0 Cadmium ND 0.005 1.0 Chromium 0.33 0.01 5.0 Lead 0.03 0.05 5.0 Selenium ND 1.0 1.0 Silver ND 0.01 5.0 Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result FOL Max Conc. Mercury ND 0.002 0.2 ND - Not Detected PQL -: Fractical Quantitation Limit	IDENTIFICATION: Samples received o Project: EPNG Com P. O. No. 58659	n 04-28-95 pany		
Lab Sample No. 48312-1 Lab Sample No. 48312-1 Toxicity Characteristic Leaching Frocedure (TCLP) Method 1311 ICP Metals by EPA Method 6010 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L Paraméter Arsenic 0.19 0.10 5.0 Earium 0.65 0.005 100.0 Cadmium ND 0.005 1.0 Chromium 0.33 0.01 5.0 Lead 0.03 0.05 5.0 Salenium ND 1.0 1.0 Silver ND 0.01 5.0 Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result EOL Max Conc. Mercury ND 0.002 0.2 ND 0.002 0.2	ANALYSIS:			Chara Plan
Lab Sample No. 48312-1 Client ID: 250511 95-A7081 Toxicity Characteristic Leaching Procedure (TCLP) Method 1311 ICP Metals by EPA Method 6010 Date Extracted: 5-4-95 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L Paraméter Result POL Max Conc. Arsenic 0.19 0.10 5.0 Cadmium 0.65 0.005 1.0 Cadmium 0.33 0.01 5.0 Cadmium 0.33 0.01 5.0 Lead 0.08 0.05 5.0 Selenium ND 1.0 1.0 Silver ND 0.01 5.0 Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result FOL Max Conc. Mercury ND 0.002 0.2 ND 0.002 0.2				CHALC Schwa
Lab Sample No. 48312-1       Client ID: 950511 95-A7081         Toxicity Characteristic Leaching Procedure (TCLP) Method 1311         ICP Metals by EPA Method 6010         Date Extracted: 5-4-95         Date Extracted: 5-5-95         Units: mg/L         Priraméter         Result       POL         Max Conc.         Arsenic       0.19         Sarium       0.65         Cadmium       ND         Chromium       0.33         Chromium       0.06         Lead       0.00         Salenium       ND         ND       1.0         Silver       ND         Mercury by Cold Vapor AA Per EPA Method 7470         Date Analyzed: 5-5-95         Units: mg/L         Parameter         Result       FOL         Mercury       ND         O.002       0.2         ND       0.002         Parameter       Result         FOL       Max Conc.         Mercury       ND         ND       0.002         O.002       0.2		:		
Toxicity Characteristic Leaching Frocedure (TCLP) Method 1311 ICP Metals by EPA Mathod 6010 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L Barium 0.19 0.10 5.0 Barium 0.65 0.005 100.0 Cadmium ND 0.005 1.0 Chromium 0.33 0.01 5.0 Chromium 0.33 0.01 5.0 Lead 0.08 0.05 5.0 Selenium ND 1.0 1.0 Silver ND 0.01 5.0 Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result COL Max Conc. Mercury ND 0.002 0.2 ND - Not Detected PQL -: Practical Quantitation Limit	Lab Sample No. 483	12-1 Cl	ient 10: 950	511 95-A7081
ICALCIEV CHARTER PREATE BY EPA Mathed 5010         Date Extracted: 5-4-95         Date Extracted: 5-4-95         Date Analyzed: 5-5-95         Units:       mg/L         Paraméter       Result       POL       Max Conc.         Arsenic       0.19       0.10       5.0         Barium       0.655       0.005       100.0         Cadmium       ND       0.005       1.0         Chromium       0.33       0.01       5.0         Lead       0.03       0.05       5.0         Salenium       ND       1.0       1.0         Lead       0.03       0.01       5.0         Salenium       ND       1.0       1.0         Silver       ND       0.01       5.0         Mercury by Cold Vapor AA Per EPA Method 7470       Date Analyzed: 5-5-95       Units: mg/L         Parameter       Result       EOL       Max Conc.         Mercury       ND       0.002       0.2         ND       0.002       0.2         ND       0.002       0.2         Mercury       ND       0.002       0.2         ND       0.002       0.2 <td>Mauiniter Chasant</td> <td>avieta cashina S-</td> <td>nradura (Tret a</td> <td>) Method 1711</td>	Mauiniter Chasant	avieta cashina S-	nradura (Tret a	) Method 1711
Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L Paraméter Result POL Max Conc. Arsenic 0.19 0.10 5.0 Barium 0.65 0.005 100.0 Cadmium ND 0.005 1.0 Chromium 0.33 0.01 5.0 Chromium 0.33 0.01 5.0 Lead 0.08 0.05 5.0 Selenium ND 1.0 1.0 Silver ND 0.01 5.0 Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result FOL Max Conc. Mercury ND 0.002 0.2 ND - Not Detected PQL -: Fractical Quantitation Limit	roxicity Unaraci	ICP Metals by EPA M	letnod 5010	,
Paraméter     Result     POL     Max Conc.       Arsenic     0.19     0.10     5.0       Barium     0.65     0.005     100.0       Cadmium     ND     0.005     1.0       Chromium     ND     0.03     0.01     5.0       Lead     0.03     0.05     5.0       Selenium     ND     1.0     1.0       Silver     ND     0.01     5.0       Mercury by Cold Vapor AA Per EPA Method 7470     Date Analyzed: 5-5-95     Units: mg/L       Parameter     Result     FOL     Max Conc.       Mercury     ND     0.002     0.2		Date Extracted: Date Analyzed:	5-4-95	
Firanéter       Result       FOL       Max Conc.         Arsenic       0.19       0.10       5.0         Sarium       0.65       0.005       100.0         Cadmium       ND       0.005       1.0         Chromium       0.33       0.01       5.0         Lead       0.08       0.05       5.0         Selennum       ND       1.0       1.0         Silver       ND       0.01       5.0         Mercury by Cold Vapor AA Per EPA Method 7470       Date Analyzed: 5-5-95       Units: mg/L         Parameter       Result       FOL       Max Conc.         Mercury       ND       0.002       0.2         ND       0.002       0.2	· ·	Units: mg.	/L	
Faraméter     Result     POL     Max Conc.       Arsenic     0.19     0.10     5.0       Sarium     0.65     0.005     100.0       Cadmium     ND     0.005     1.0       Chromium     0.33     0.01     5.0       Lead     0.03     0.05     5.0       Selenium     ND     1.0     1.0       Silver     ND     0.01     5.0       Mercury by Cold Vapor AA Per EPA Method 7470     Date Analyzed: 5-5-95     95       Units:     mg/L     Max Conc.       Mercury     ND     0.002     0.2				
Arsenic 0.19 0.10 5.0 Barium 0.65 0.005 100.0 Cadmium ND 0.005 1.0 Chromium 0.33 0.01 5.0 Lead 0.08 0.05 5.0 Selenium ND 1.0 1.0 Silver ND 0.01 5.0 Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result FOL Max Conc. Mercury ND 0.002 0.2 ND - Not Detected PQL -: Practical Quantitation Limit	Faranéter	Result	POL	Max Conc.
Barium       0.65       0.005       100.0         Cadmium       ND       0.005       1.0         Chromium       0.33       0.01       5.0         Lead       0.08       0.05       5.0         Selenium       ND       1.0       1.0         Silver       ND       0.01       5.0         Mercury by Cold Vapor AA Per EPA Method 7470       Date Analyzed: 5-5-95       Units: mg/L         Parameter       Result       FOL       Max Conc.         Mercury       ND       0.002       0.2         ND       0.002       0.2	Arsenic	0.19	0.10	5.0
Cadmium     ND     0.005     1.0       Chromium     0.33     0.01     5.0       Lead     0.03     0.05     5.0       Selenium     ND     1.0     1.0       Silver     ND     0.01     5.0       Mercury by Cold Vapor AA Per EPA Method 7470     1.0     1.0       Date Analyzed:     5-5-95     Units: mg/L       Parameter     Result     FOL     Max Conc.       Mercury     ND     0.002     0.2	Barium	0.65	0,005	100.0
Chromium     0.33     0.01     5.0       Lead     0.08     0.05     5.0       Selenium     ND     1.0     1.0       Silver     ND     0.01     5.0       Mercury by Cold Vapor AA Per EPA Method 7470     Date Analyzed: 5-5-95       Units:     mg/L       Parameter     Result     FOL       Mercury     ND     0.002     0.2	Cadmium	ND	0.005	1.0
Selenium     ND     1.0     1.0       Selenium     ND     0.01     5.0       Silver     ND     0.01     5.0       Mercury by Cold Vapor AA Per EPA Method 7470     Date Analyzed: 5-5-95       Units:     mg/L       Parameter     Result     EOL       Mercury     ND     0.002     0.2	Chromium	C . 33	0.01	5.0
Silver     ND     0.01     5.0       Mercury by Cold Vapor AA Per EPA Method 7470       Date Analyzed: 5-5-95       Units: mg/L       Parameter       Result     FOL       Mercury       ND     0.002       0.002       0.002       0.002       ND       0.002       0.002       0.002	Lead	. 0.05 תא	1.0	1.0
Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result EOL Max Conc. Mercury ND 0.002 0.2 NB - Not Detected PQL -: Fractical Quantitation Limit	Silver	ND	0.01	5.0
Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L Parameter Result POL Max Conc. Mercury ND 0.002 0.2 ND - Not Detected PQL -: Fractical Quantitation Limit				
Parameter Result <u>FOL Max Conc.</u> Mercury ND 0.002 0.2 ND - Not Detected PQL - Fractical Quantitation Limit	Mercury	by Cold Vapor AA P Date Analyzed: Units: mg	er EPA Method 5-5-95 /L	7470
Mercury ND 0.002 0.2 ND - Not Detected PQL - Fractical Quantitation Limit	Parameter	Result	POL	Max Conc.
ND - Not Detected PQL - Fractical Quantitation Limit	Mercury	ND	0.002	0.2
ND - Not Detected PQL - Fractical Quantitation Limit				,
ND - Not Detected PQL - Fractical Quantitation Limit	}	1		
PQL - Practical Quantitation Limit	ND - Not Detected			
	PQL - Fractical Qu	antitation Limit		
			i i	

Client Name				Philip Environmental Laboratory
Cilent ID:	)	j	ļ	950511 95-A7081
Lab ID:		i i		48312-01
Date Received:		:	:	4/28/95
Date Prepared:	(			5/9/95
Date Analyzed:		•		5/9/95
% Solids		•		•
· · ·	1			

#### TCLP Volatile Organics by USEPA Method 8240

			I	Recove	ry Limite
Śurrogate	1	% Recovery	Flags	Low	High
1,2-Dichloroethane-d4		07	•	78	114
Toluene-d8		<b>91</b> '		<b>8</b> 5	110
Bromofluorobonzeno	I	102		86	115
1 T			1		
	1	:			
k			1		
[ ] I	;			•	
:	1				
1			,		
1		Result			•
Anaiyte	•	(mg/L)	PQL		Flags
Vinyi Chlonde		ND	· C.2		
1,1-Dichioroethene		ND	• 0.1		
Chloroform		ND	0.1		
1,2-Dichloroethane		ND	- 0.1		
2-Butanone (MEK)	t	ND	0.1		
Carbon Tetrachloride		ND	<u>)</u> 0.1		
Trichloroethene		ND	Q.1		
Benzene		ND	C,1		
Tetrachioroethene		ND	0.1		
Chlorobenzene		ND	0.1		
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		,			

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Client Name		1	Philip Environmental Laboratory
Client ID:		·	950511 95-47081
Lab ID:	,	•	48312-01
Date Received:			4/28/95
Date Prepared:			5/9/85
Date Analyzed:			5/11/95
% Solids			-
•	•		

### TCLP Semivolatlle Organics by USEPA Method 8270

Passa a sta			Recovery Limits		
Nitrobenzene - d5	% Recovery	Flags	Low	High	
2 · Fuorobiphenyl	68		35 23	114 118	
p - Terpnenyl - 014	87		33	141	
	58		10	94	
2,4.8 - Tribromophenot	53	: ·	21 10	100 123	

, i	' Result		
Analyte	(mg/L)	POI	Fisco
1,4-Dichlorobenzene	ND	0.01	11834
2-Methylphenol	ND ND	0.01	
3 & 4-Methylpheno:	ND	0.01	
Hexachlorcethane	ND	0.01	
Nitrobenzene	ND	0.01	
Hexachlorobutadiene	ND	10.01	
2,4,6-Trichlorophenot	ND	0.01	
2,4,5-Trichlorophenel	ND	0.01	
2.4-Dinitrototuene	NE	0.01	
Hexachlorobenzena	ND	0.01	
Pentachlurophenol	ND	0.05	
Pyridine	ND	0.03×	
	•		

3

FAX NO.! 206822310

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Philip Environmental Laboratory Project: EPNG Company Lab No. 48312 May 12, 1995

Lab Sample No. 48312-2

Client ID: 950512 95-A7082

Chaco Plant "B' Cooling TowerL

Toxicity Characteristic Leaching Procedure (TCLP) Method 1311 ICP Metals by EPA Method 6010 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L

Parameter	Result	<u>70L</u>	Max Conc.	
Arsenic	0.23	0.10	5.0	
Barium	0.93	0.005	100.0	
Cadmium	ND	0.005	1.0	
Chromium	0.48	0.01	5.0	
Lead	C.10	0.05	5.0	
Sélenium	ND	1.0	1.0	
Silver	ND	0.01	5.0	

#### Mercury by Cold Vapor, AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L

Parameter		R	esult		Pol	Max Conc.
Mercury	1	•	ND	•	0.002	0.2

ND: - Not Detected POL - Practical Quantitation Limit

P.103

is report is issued solely for the ass of the period or company to whom it is advisued. This laboratory accepts responsibility only for the due performance of analysis in accordance with Justity acceptable practice. In no event shall Sound Analyticul Sorvices, Inc. on its employees to responsible for consequential or special challenges as any kind or in any sizouth.

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## SOUND ANALYTICAL SERVICES, INC.

#### TCLP Volatile Organics by USEPA Method 8240

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		•	Recove	ry Limits
Surrogate	% Recovery	Flags	Low	High
1.2-Dichloroetnane-04	94		76	114
Toiuene-d8	94		88	110
	87 1		<b>36</b>	115

(mg/L)	PQL	Flags
ND	0.2	
ND	0.1	
<sup>1</sup> DA	0.1	
DND .	0.1	
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ND	0.1	
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FAX NO. 206922310

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## SOUND ANALYTICAL SERVICES, INC.

Client Name Client ID: Lab ID: Date Received: Date Prepared: Date Analyzed: % Solids

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Philip Environmental Laboratory 950512 95-A7082 48312-02 4/28/95 5/9/95 5/11/95

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#### TCLP Semivolatile Organics by USEPA Method 8270

1			Recove	ry Limits
Surrogate	· % Recovery	Flags	Low	High
Nitrupenzene - d5	88	•	35	114
2 - Fluorobiphenyl	70		43	116
p - Terphenyl - 414	85 1	. :	33	141
Phenol - d5	<b>60</b> :		10	94
2 - Fluorophenol	<b>65</b> :	. 1	21	100
2,4,6 - Tribromophenol	54	i .	10	123

	Result	•	
Analyte	(mg/L)	PQL	Flaos
t,4-Dichlorobenzene	ND	0.01	
2-Methylphenol	ND	0.01	
3 & 4-Methylphenol	ND	0.01	
Hexachloroethane	ND	0.01	
Nitrobonzone	ND	0.01	
-lexachiorobutadiene	ND	0.01	
24,6-Trichlorophenol	1 ND	0.01	
2,4,5-Trichlorophenol	ND	0.01	
2,4-Dinitrotoluene	ND ,	C.07	
-lexachlorobenzene	ND	0.01	
Pentachiorophenel	ND	0.05	
Pyridine	ND	0.01	
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SOUND ANALYTICAL

## SOUND ANELYTICAL SERVICES, INC.

Philip Environmental Laboratory Project: EPNG Company Lab No. 48312 May 12, 1995

Lab Sample No. 48312-3

Client ID: 950513 95-A7083

Chaco Plant "c" Coolina Town

Toxicity Characteristic Leaching Procedure (TCLP) Method 1311 ICP Metals by EPA Method 6010 Date Extracted: 5-4-95 Date Analyzed: 5-5-95 Units: mg/L

Parameter		1	Result		POL	Max Conc.
Arsenic Barium Cadmium Chromium Lead Selenium Silver	;	; !	0.22 0.55 ND 0.05 0.07 ND ND	:	0.10 0.005 0.010 0.01 0.05 1.0 0.01	5.0 100.0 1.0 5.0 1.0 5.0

#### Mercury by Cold Vapor AA Per EPA Method 7470 Date Analyzed: 5-5-95 Units: mg/L

Parametar	Result	POL	Max Conc.
Mercury	3D	0.002	0.2

NDI - Not Detected PQL - Practical Quantitation Limit

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This report is impediately for the new of the person or company to whom if is addressed. This informatory accepts responsibility only for the due performance of analysis in accordance with relunity acceptable proctice. In no event shall Sound Analytical Survices. Toth or its employees be responsible for consequential or special definages in any block or its any employees be responsible for consequential or special definages in any block or its any employees be

SOUND ANALYTICAL

101-10-82 HON IS:13

# SOUND ANALYTICAL SERVICES, INC.

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Client Name Client:ID:	+ i   	-	Philip Environmental Laboratory 950513 95-A7083 48312-03
Date Received: Date Prepared:	1		4/28/95 5/9/95
Date Analyzed: % Solids	ļ		5 <b>/8/96</b>

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### TCLP Volatile Organics by USEPA Method 8240

Surrogate 1,2-Dichiorocthane-de Toluene-d8 Bromofiuorobonzono	4 1 1	% Reco 94 105 79	<b>vary</b> , , ,	FI	ags Ko	Recovery Low 76 88 89	Limits High 114 110 115
· · ·			!	.   ,			
Analyte Vinyl Chloride 1,1-Dichloroethene Chloroform 1,2-Dichloroethane 2-Butanone (MEK) Carbon Tetrachlorice Trichloroethene Benzene Tetrachlorcethene Chlorobenzene	! :	Resi (mg/ ND ND ND ND ND ND ND ND ND ND ND ND ND	uit L) 0.11	: P	QL 0.2 6.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		Flags
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## SOUND ANALYTICAL SERVICES,

1 **Client Name** ÷ 1 Cilent ID: Lab ID: Date Received: Date Prepared: Date Analyzed: % Solids

Philip Environmental Laboratory 350513 95-A7083 48312-03 4/28/95: 5/9/95 5/11/95 •

### TCLP Semivolatile Organics by USEPA Method 8270

1	i ı		Kecovera Prune		
	% Recover	Flags	Low H	igh	
Surrogate	75 Kuuuuu		35 1	114	
Nitropenzene - d5	60		43	15	
2 - Fluorobiphenyl	01 :	i i	22	141	
p - Terphenyl - d14	81	· · ·	10	<b>94</b>	
Ahenol - d5	59		21	100	
2 - Fluorophenol	52 12	•	10	23	
2.4.6 - Tribromophenol	1 📥 :				

403W8	Result (mg/L)	PQL	Flags
	ND	0.01	
7-Methyinhendi	ND	0.01	
	ND	9.01	
	ND	0.01	
Hexachicidethalle	ND	- 0.01	
Nitrobenzene	ND	0.01	
Hexagniorobutaciene		0.01	
2,4,8-Trichlorophenoi		0.01	
2,4,5-Trichlorophenol:		0.01	
2.4-Dinitrotoluene	ND .	0.01	
Hexachiorobenzene	NU	0.05	
Pentachlorophenol	ND	0.00	
Pyriaine	ND	9.91	•
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LAX NO. 206922310

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TOTAL P.010



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

August 14, 1996

#### CERTIFIED MAIL RETURN RECEIPT NO. P-594-835-304

Mr. Ricky D. Cosby Compliance Specialist El Paso Field Services (EPFS) P.O. Box 4990 Farmington, NM 87499

RE: Minor Modification GW-71, Chaco Plant San Juan County, NM

P	374	ົອຈອີ້ຈາມ
US Postal	Service	Contified Mail

Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse) Sente: Ricky Crosof Super: Nones: Minor Ma

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Dear Mr. Cosby:

The New Mexico Oil Conservation Division (OCD) has received the EPFS letter dated August 7, 1996 requesting the addition of a 100 barrel steel lubricating oil storage tank at the Chaco Plant to serve the "Bisti 8" compressor. The EPFS request is considered a minor modification to the above referenced discharge plan and public notice will not be issued. The requested minor modification is hereby approved, with the following conditions:

- 1. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad.
- 2. <u>Above Ground Saddle Tanks</u>: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.
- 3. **Tank Labeling**: All tanks should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

The Application for modification was submitted pursuant to Water Quality Control Commission (WQCC) Regulation 3107.C and is approved pursuant to WQCC Regulation 3109.

Mr. Ricky Cosby EPFS Chaco Plant GW-71 August 14, 1996 Page No. 2

Please note that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3107.C EPFS is required to notify the Director of any facility expansion, production increase or process modification that would result in a significant modification in the discharge of potential ground water contaminants.

Note, that OCD approval does not relieve EPFS of liability should EPFS operation's result in contamination of surface waters, ground waters or the environment.

Sincerely,

04.

Roger C. Anderson Environmental Bureau Chief

RCA/pws

XC: Mr. Denny Foust - Environmental Geologist



209 **i 2** isss



P. O. Box 4990 Farmington, NM 87499

August 7,1996

Mr. Bill Olson New Mexico Oil Conservation Division 2040 S. Pacheco Street Santa Fe, NM 87504

RECEIVED

AUG 1 3 1996

RE: Minor Modification to the Discharge Plan GW-71 EPNG Chaco Canyon Gas Processing Plant Enveronmental Bureau Oil Conservation Division

Mr. Olson

El Paso Services requests approval for a minor modification to the Chaco Plant Discharge Plan. The modification will incorporate one-100 bbl. tank for the storage of unused lube oil servicing the new caterpillar "Bisti 8" compressor. The Chaco Plant facility is located in SW/4 Section 16, Township 26N, Range 12W.

Tank and assembly specifications are as follows:

- One (1)- 100 bbl. aboveground tank for bulk storage servicing the new Bisti 8 skid mounted compressor.
- One (1) air driven Wilden Model M-2 pump (placed inside berm) for pumping lube oil from the storage tank to the day tank.
- The tank is to be placed on the former electrically driven "Bisti 8" concrete compressor pad foundation (compressor has been retired and replaced with a skid mounted caterpillar compressor).
- The compressor pad and area within a metal berm will be covered with approximately 3" of soil. An impermeable liner will cover this area and an additional 2" to 3" of soil will be placed over the top of the liner.
- The metal will be able to contain at a minimum 113 times the total capacity of the tank.
- A 1"O.D. or larger line to transfer the new lube oil to the lube oil "day tank".

EPFS requests approval for the subject tank installation. If you require more information please don't hesitate to call (505)599-2158.

Thank you.

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h. A. Conly Ricky D. Costy

**Compliance Specialist** 

cc: Denny Foust File: Chaco Plant Discharge Plan GW-71 1996 Chaco Regulatory

Installation of 100bbl. lube oil storage tank.





### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505

(505) 827-7131

June 13, 1996

#### CERTIFIED MAIL RETURN RECEIPT NO. P-269-269-390

Mr. Patrick Marquez El Paso Field Services Company P.O. Box 4990 Farmington, NM 87499

#### Re: Minor Modification to Discharge Plan (GW-71) Chaco Gas Plant San Juan County, New Mexico

Dear Mr. Marquez:

The New Mexico Oil Conservation Division has received El Paso Field Services Company's correspondence dated March 8, 1996 requesting approval to modify the existing discharge plan (GW-71). The modification proposed is to transfer contact water from the permitted lined ponds to industrial pond #3 and the temporary lined pond on an as needed basis.

Based upon the information provided, the New Mexico Oil Conservation Division hereby approves the transfer of the contact water under the following conditions:

- 1. This is a temporary approval for a period of one year. The temporary approval will expire March 8, 1997. Formal reapplication must be sought at that time if the ponds are to be used past that date.
- 2. This contact water shall be annually sampled, and a report submitted to the New Mexico Oil Conservation Division, for the constituents listed in Water Quality Control Commission Regulation 3103. A except for the radioactive species. This condition is consistent with the September 14, 1994 conditions of approval for the installation of the lined evaporation ponds and can be incorporated into that required annual report.

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3. All other discharge plan requirements will remain in effect.

Mr. Patrick Marquez June 13, 1996 Pg. 2

Please be advised that New Mexico Oil Conservation Division approval does not relieve El Paso Field Services Company of liability should their operation result in pollution of ground water, surface water or the environment. In addition, New Mexico Oil Conservation Division approval does not relieve El Paso Field Services Company of responsibility for compliance with other federal, state and/or local regulations.

If there are any questions on this matter, please contact Chris Eustice at (505) 827-7153.

Sincerely,

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Rogen - C

Roger C. Anderson Environmental Bureau Chief

RCA/cee

cc: New Mexico Oil Conservation Division-Aztec Office



Mr. Roger Anderson Mr. Chris Eustice New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87504

March 8, 1996

### Subject: Request approval to transfer contact water (CW) to Industrial Pond #3 and extend the approval period for the use of the Temporary Lined Pond at Chaco Plant.

#### History

- Lined ponds installed in mid 1995
- Began to experience capacity problems in December 1995
- Received approval for temporary pond to alleviate the capacity problem and to accommodate the liner repairs.

#### **Current Status of the Pond Operation**

- All three lined ponds are approximately one week shy of full capacity /
- Based on preliminary investigation of the lined pond capacity, EPFS feels that: 1) the lined pond design may be inadequate 2) upstream changes in gas quality (i.e. water content) have changed, increasing water volume

#### **Extent of EPFS's Requests/Proposal**

- To prevent the uncontrolled release of CW immediately begin transfer of (CW) to the former unlined (CW) pond immediately west to the lined ponds (industrial pond #3 which currently accepts non-contact water). This proposal is supported by the following:
- 1. Chaco Plant is outside the water vulnerable zone (Appropriate map is attached)
- 2. The former pond was used for nearly 40 years with no significant impact to ground water Monitor well data has been provided to your office via annual MW analysis report and flare pit/contact water pond closure report.

#### **EPFS's Plans for a Permanent Solution**

- EPFS has and will continue to investigate the sources and volumes of contact water entering the lined ponds.
- Permanent solutions may include: 1) Construction and operation of additional lined ponds 2) reuse of the CW in the processing of natural gas liquids 3) redesign/modification to the enhanced evaporation system.

El Paso Field Services respectfully requests permission to 1) transfer contact water from the lined ponds to industrial pond #3 on an as need basis for a period of <u>six months and</u> 2) extend the approval for use of the temporary lined pond for an additional six months. At that time EPFS shall update the NMOCD on the progress of the investigation/solutions. Please call at 505-599-2175 if you need additional information.

Thank you, Patrick J. Marguez Compliance Engineer

cc: Denny Foust (NMOCD- Aztec) Bob Yungert Lyndell Smith/Gerry Hoover Sandra Miller/David Bays/Ricky Cosby/File: 5212 Chaco Regulatory





- A 1952 ji ja Rec. by PMG on 8-15-96

June 3, 1996

Mr. Chris Eustice New Mexico Oil Conservation Division 2040 S. Pacheco Street Santa Fe, NM 87504

## Re: Annual Report for Chaco Plant Non-Contact Water Use by Outside Agencies and Request for Modification to Approval Procedures

Mr. Eustice,

As you know, several outside agencies have and continue to request the use of Chaco Plant's non-contact water for natural gas/oil exploration & production and road maintenance activities. As a condition for this use EPFS is required to submit an annual report documenting these requests, the intended use and volumes. Attached you will find signed agreements and the log sheets documenting this use.

Due to the frequency of these request, EPFS request that the following procedure be implemented to accommodate the outside agencies, EPFS and The NMOCD:

- 1. Outside agencies will continue to sign EPFS' "Agreement for Non-contact Water Use" prior to the removal of water from Chaco Plant at the time of their initial request. This agreement essentially reemphasizes NMOCD's specifications for the water's use. EPFS will keep these agreements on file and submit them to the NMOCD with the Annual Report of Non-Contact Water Use.
- 2. Use for dust suppression/road maintenance by San Juan County be approved on an annual basis to avoid the "case by case notification" required by NMOCD per the approval letter dated February 15, 1995 (attached). San Juan County shall be responsible for obtaining this approval and submitting the approval to EPFS/Chaco Plant.
- 3. All other conditions specified in the February 15th letter shall be observed.

This procedure should shorten the time consuming administrative duties imposed on EPFS and the NMOCD without jeopardizing the compliant use of the non-contact water. Please consider this course and contact me at 505-599-2175 if you have questions about this information or the suggested procedure.

Thank you. Patrick J. Margu Compliance Engineer

xc: w/attach Denny Foust - NMOCD S.Miller/D.Bays/R.Cosby/File: Chaco Plant Regulatory

w/o attach David Keck - San Juan County P.Quintana/G.Hoover/M.Hansen

#### ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. dated 2/1/96 in the amount of \$ 50.00 or cash received on from El Poso Den, Chora Co for <u>GW071</u> (Pasiline Hanne Submitted by: • Data: Submitted to ASD by: Date: Helder Date: 30 Received in ASD by: (Ingela Filing Fee X New Facility \_\_\_\_ Renewal Modification \_\_\_\_ Other Organization Code 521.07 Applicable FY 96To be deposited in the Water Quality Management Fund. Full Payment \_\_\_\_ or Annual Increment \_ TOILIGHT WITH DARKER AREA E AREA OF Payable AD CITIBANE DELAWARE EL PASO NEW CHACO COMPA P.O. Box 99234 EI Paso: TX 79999-9234 ONE PENN'S WAY 62-20 Date 02/01/96 311 NEW CASTLE, DE 19720 \*\*\*\*Fifty and 00/100 US Dollars\*\*\*\* Pav \$50.00\*\*\*\* Pay Amount To The Order Of Void After 1 Year NMED WATER QUALITY MANAGEMENT 2040 S PACHECO SANTA FE, NM 87505 Filing Fee for Gw-071 Approval (Receipt No. 2-765-962-604) Authorized Signature

Check Date: 02/01/96 EL PASO NEW CHACO COMPANY Phone: 915/541-3885 Check No: Voucher Comment Invoice Amount Discount Paid Amount **Invoice Date** 00000031 **CKREQ960131** 01/31/96 \$50.00 \$0.00 \$50.00 Filing Fee for GW-071 Discharge Modification for Chaco Cayo Plant. NULOCO to EPFS 12/21/95 Receipt # Z-765-962-604 Vendor Number Vendor Name **Total Discounts** NMED WATER OUALITY MANAGEMENT 000000969 \$0.00 **Total Paid Amount Check Number** Account No. **Total Amount Discount Taken** Date 02/01/96 \$50.00 \$0.00 \$50.00

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February 2, 1996

Mr. Chris Eustice New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87504

Subject: Filing Fee for Major Modification to Groundwater Discharge Plan GW-071

Dear Mr. Eustice:

Enclosed you will find the a check (#01000008) for payment of the filing fee associated with EPNG's latest request for modification to Discharge Plan GW-071.

The approval letter dated December 21, 1995 states that this payment had already been received by your office; however, several weeks later you informed me that, in fact, it had not. Our records confirm that only the flat rate of one thousand sixty-seven dollars and fifty cents (\$1667.50) had been paid to the NMOCD leaving a balance of fifty dollars (\$50).

Please do not hesitate to call if you need information at 505 599 2175.

Thank you,

Patrick J. Marquez

Compliance Engineer

cc:

File: 5212 Chaco Plant

NEW MEXICO ENERGY, MICERALS AND NATURAL REMURCES DEPARTMENT

January 11, 1996

#### CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-606

Mr. Patrick Marquez El Paso Natural Gas Company P.O. Box 4990 Farmington, New Mexico 87499

Re: Contact Water Ponds \* Chaco Gas Plant (GW-71) San Juan County, New Mexico

Dear Mr. Marquez:

The New Mexico Oil Conservation Division (OCD) has received El Paso Natural Gas Company's (EPNG) request dated December 11, 1995 to transfer water from the north and south contact water ponds to a temporarily lined pond. This transfer of water will allow EPNG to repair leaks in the liners of both the north and the south contact water ponds and provide the needed storage capacity for an excess of contact water.

Based upon the information provided the OCD hereby approves the request subject to the following conditions:

- 1. A temporary pond will be lined with a 12 mil liner and the water from the two permanent contact water ponds will be transferred to this temporarily lined pond.
- 2. Leaks in the two permanent contact water pond liners will be repaired and the results of the repairs will be reported to the OCD.
- 3. EPNG will submit a closure plan to the OCD Santa Fe Office for the temporary pond prior to initiating closure activities.
- 4. This temporary pond is authorized until June 30, 1996.

Mr. Patrick Marquez January 11, 1996 Page 2

Please be advised that OCD approval does not relieve EPNG of liability should their operation result in pollution of ground water, surface water or the environment. In addition, OCD approval does not relieve EPNG of responsibility for compliance with other federal, state and/or local regulations.

If there are any questions on this matter, please contact me at (505) 827-7153.

Sincerely, **Chris Eustice** 

Geologist

xc: OCD Aztec Office

### ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

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I hereby acknowledge receipt of a	check No. dated $\frac{1/1/96}{1}$ ,
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Received in ASD by: <u>(1)921</u>	<u> //wichie Date: /-//96</u>
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