GW - 297

GENERAL CORRESPONDENCE

YEAR(S):

2003-1995

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of **THE LOVINGTON DAILY LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of September 3, 2003 and ending with the issue of September 3, 2003.

And that the cost of publishing said notice is the sum of $119.24 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 23rd day of September 2003

Debbie Schilling

Debbie Schilling
Notary Public, Lea County, New Mexico
My Commission Expires June 22, 2006

LEGAL NOTICE
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 permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-297) – Chaparral Services, Inc., P.O. Box 1769, Eunice, NM 88231, has submitted a discharge permit renewal application for its facility located in the SW/4 NW/4 of Section 20, Township 25 South, Range 37 East and the SE/4 N/E4 of Section 19, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per month of waste oil and solvents are collected in fiberglass storage tanks, then transported offsite for disposal. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 40 feet with a total dissolved solids concentration ranging from 700 to 1,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(BW-025) Paul Prather, P.O. Box 7169, Eunice, New Mexico 88231, has submitted a discharge plan renewal application for the CSI Brine Sales Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water is stored in four 1,000 barrel above ground closed top tanks. The plan includes a chemical storage dock and a below grade concrete pit for temporary storage of exempt oilfield waste. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-018) Key Energy Services, Inc., Bob Patterson, (505) 394-2581, P.O. Box 340, Hobbs, New Mexico, 88240, has submitted a discharge application for its previously approved discharge plan for the Trucker's #2 Brine Station located in the NE/4 SW/4 of Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 390,000 mg/l. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 60 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-145) – Flatrock Energy Partners, Mr. Clay Smith, P.E., 15600 San Pedro, Suite 401, San Antonio, Texas 78232, (210) 494-6777, on behalf of Raptor Gas Transportation LLC operated by ConocoPhillips, has submitted a discharge renewal application for the Zia Gas Plant and the Zia Booster Compressor Station located in the NE/4 NE/4 of Section 19 Township 19 South, Range 32 East, NMPM, Lea County, New Mexico. Approximately 5,900 gallons per month of process wastewater will be collected and stored in above ground steel tanks prior to disposal at an OCD approved offsite commercial disposal facility. The total dissolved solids concentration of the wastewater is approximately 2,000 mg/l. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 280 feet with a total dissolved solids concentration of approximately 2,400 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-351) – EOTT Energy LLC, Mr. Frank Hernandez, P. O. Box 1660, 5805 East Highway 80 Midland, Texas 79702, permit application for the EOTT Lea Station crude pump facility located in the NW/4, Section 28 Township 20 South Range 37 East, NMPM Lea County, New Mexico. Any potential discharge at the facility will be collected prior to transport to an OCD approved off-site disposal facility. Groundwater under this facility is being remediated under an OCD approved abatement plan. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m. Monday through Friday. The draft discharge permit may also be viewed at OCD's web site http://www.emnrd.state.nm.us/ocd/. Prior to ruling on any proposed discharge permit 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 comment may be submitted to him and a public hearing may be requested by any interested person. Request 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.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 1st day of August 2003.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY
Director

S E A L

Published in the Lovington Daily Leader September 3, 2003

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 permit applications have been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-304) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Turley Compressor Station (Trunk O) located in the SW/4 NW/4 of Section 30, Township 30 North, Range 9 West, NMPM, San Juan County, New Mexico. Approximately 250 barrels per month of produced water, with a dissolved solids concentration ranging from 8,000 to 76,000 mg/l, is collected in closed steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a closed, double-walled underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 100 feet with a total dissolved solids concentration of approximately 300 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-147) – El Paso Natural Gas Company, Richard Duarte, (505) 831-7763, 3801 Atrisco Blvd. N.W., Albuquerque, New Mexico 87120, has submitted its discharge permit renewal application for its Deming Compressor Station located in the SE/4 SE/4 of Section 32, Township 23 South, Range 11 West, NMPM, Luna County, New Mexico. Approximately 43,200 gallons per day of cooling tower blowdown water with a total dissolved solids concentration of approximately 77,000 mg/l is stored in above-ground, lined evaporation ponds equipped with leak detection. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 30 feet with a total dissolved solids concentration of approximately 5,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-297) – Chaparral Services, Inc., P.O. Box 1769, Eunice, NM 88231, has submitted a discharge permit renewal application for its facility located in the SW/4 NW/4 of Section 20, Township 25 South, Range 37 East and the SE/4 N/E4 of Section 19, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per month of waste oil and solvents are collected in fiberglass storage tanks, then transported offsite for disposal. Groundwater most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 40 feet with a total dissolved solids concentration ranging from 700 to 1,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-303) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Navajo City Compressor Station (Trunk L) located in the SW/4 NW/4 of Section 33, Township 30 North, Range 7 West, NMPM, San Juan County, New Mexico. Approximately 250 barrels per month of produced water, with a dissolved solids concentration ranging from 8,000 to 76,000 mg/l, is collected in closed steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a closed, double-walled underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 200 feet with a total dissolved solids concentration of approximately 1,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-302) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Potter Canyon Compressor Station (Trunk H/H) located in the NW/4 NE/4 of Section 19, Township 30 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 500 barrels per month of produced water, with a dissolved solids concentration of 10,000 mg/l, is collected in closed steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a closed, double-walled underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 2,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-298) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Martinez Canyon Compressor Station located in the SE/4 SE/4 of Section 16, Township 27 North, Range 6 West, NMPM, Rio Arriba County, New Mexico. Approximately 20 gallons per day of wastewater with a dissolved solids concentration of 10,000 mg/l is collected in the wash rack and a double-walled, closed steel tank sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth greater than 200 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-301) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Manzanares Compressor Station (Trunk A-R) located in the SW/4 NW/4 of Section 16, and N/E N/E of Section 17 Township 29 North, Range 9 West, NMPM, San Juan County, New Mexico. Approximately 75 Barrels per month of produced water with a dissolved solids concentration ranging from 8,000 to 76,000 mg/l is collected in closed, steel tanks prior to transport to an off-site, OCD-approved disposal facility. Approximately 10 barrels per year of wastewater from equipment washdown is collected in a double-walled, underground sump prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 50 feet with a total dissolved solids concentration of approximately 300 mg/l to 3,000 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-154) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Angel Peak 2B3B Compressor Station located in the NE/4 NW/4 of Section 8, Township 27 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 2 gallons per day of process wastewater with a dissolved solids concentration of 3,500 mg/l is stored in closed, steel tanks prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth greater than 150 feet, with a total dissolved solids concentration of approximately 500 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-153) – El Paso Natural Gas Company, David Bays, (505) 599-2256, 614 Reilly Avenue, Farmington, New Mexico 87401-2634, has submitted its discharge permit renewal application for its Angel Peak 2B3A Compressor Station located in the SW/4 NW/4 of Section 20, Township 27 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 2 gallons per day of process wastewater with a dissolved solids concentration of 3,500 mg/l is stored in closed, steel tanks prior to transport to an off-site, OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of 55 feet, with a total dissolved solids concentration of approximately 500 mg/l. The discharge permit addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

(GW-352) - Williams Field Services, Michael K. Lane, (505) 632-4625, 118 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge permit application for the Williams Field Services Cabresto Compressor Station located in the NE/4 NE/4 of Section 19, Township 30 North, Range 4 West, NMPM, Rio Arriba County, New Mexico. Approximately 2000 to 9000 barrels per year of produced water is stored in an above ground storage tank prior to transport to an OCD approved off-site disposal facility. The total dissolved solids (TDS) of the produced water is approximately 1,100 milligrams per liter (mg/l). Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth of 100 to 400 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-025) Paul Prather, P.O. Box 7169, Eunice, New Mexico 88231, has submitted a discharge plan renewal application for the CSI Brine Sales Station located in the NE/4 NE/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Fresh water from the City of Jal is injected into the Salado Formation at an approximate depth of 1,150 feet and brine water is extracted with an average total dissolved solids concentration of 350,000 mg/l. The brine water is stored in four 1,000 barrel above ground closed top tanks. The plan includes a chemical storage dock and a below grade concrete pit for temporary storage of exempt oilfield waste. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration of approximately 875 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(BW-018) Key Energy Services, Inc., Bob Patterson, (505) 394-2581, P.O. Box 340, Hobbs, New Mexico, 88240, has submitted a discharge application for its previously approved dis-

charge plan for the Trucker's #2 Brine Station located in the NE/4 SW/4 of Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico. Fresh water is injected into the Salado Formation at an approximate depth of 2,000 feet and brine is extracted with an average total dissolved solids concentration of 390,000 mg/l. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 60 feet with a total dissolved solids concentration of approximately 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site http://www.emnrd.state.nm.us/ocd/. Prior to ruling on any proposed discharge permit 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.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 27th day of August 2003.

STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION

S E A L

LORI WROTENBERY,
Director
Legal #73956
Pub. September 3, 2003

THE SANTA FE
NEW MEXICAN
Founded 1849

RECEIVED

SEP 0 8 2003

OIL CONSERVATION
DIVISION

Ed Martin
NM OIL CONSERVATION DIV.
1220 ST. FRANCIS DR
~~ATT MARY ANAYA~~
SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689
AD NUMBER: 00025904 ACCOUNT: 00002212
LEGAL NO: 73956 P.O. #: 04-199-050340
680 LINES 1 TIME(S) 465.52
AFFIDAVIT: 5.25
TAX: 31.48
TOTAL: 502.25

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, K. Voorhees, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper 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 qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 73956 a copy of which is hereto attached was published in said newspaper 1 day(s) between 09/03/2003 and 09/03/2003 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 3rd day of September, 2003 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ K. Voorhees
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 3rd day of September, 2003

Notary Laura E Harding

Commission Expires: 11/23/03

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

July 21, 2003

Chaparral Service, Inc.
P.O. Drawer 1769
Eunice, NM 88231

Attn: Mr. Paul Prather

Dear Mr. Prather,

Enclosed are the following:

1. A copy of your current Discharge Permit for the facility formerly owned by Quality Oil Service, Inc. and transferred to Chaparral on 10/20/99.
2. A blank application form for Discharge Permit renewal.

Please complete the renewal form and mail to me, along with $100.00 for the application fee plus $1,700.00 for the permit, by August 15, 2003.

If none of the information in the current Discharge Permit has changed, all you need to do is reference the current plan. You do not need to re-do the plan, all I need is the completed application along with the fees.

If you have any questions, do not hesitate to contact me at (505) 476-3492 or emartin@state.nm.us

Sincerely,

Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau

Chaparral Service, Inc.
SCC NM 841-1

☆ Phone (505) 394-2545 ☆ West Texas Ave. ☆ P.O. Drawer 1769 ☆ Eunice, New Mexico 88231 ☆
(505) 394-2811
(505) 397-3044
FAX # (505) 394-2426

January 27, 2000

W. Jack Ford, C.P.G.
Environmental Bureau
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

RE: Discharge plan GW-297
Jal Facility
Lea County, New Mexico

Dear Mr. Ford:

Please accept this letter as transfer of Discharge Plan GW-297 from Quality Oil Service, Inc. to Chaparral Service, Inc. effective October 20, 1999.

Chaparral Service, Inc. understands compliance with the terms and conditions of this discharge plan will be our responsibility.

Sincerely,

Paul Prather
President

PP/mlm

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

Z 142 564 929 OCD

US Postal Service FORD
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to P. Prather	
Street & Number Chaparral	
Post Office, State, & ZIP Code Eunice	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date GW-297	

PS Form 3800, April 1995

January 4, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. Z 142 564 929

Mr. Paul D. Prather
Chaparral Service, Inc.
P. O. Box 1769
Eunice, New Mexico 88231

RE: Discharge Plan GW-297
Jal Facility
Lea County, New Mexico

Dear Mr. Prather:

In response to our telephone discussion of this date, I am enclosing a copy of the Discharge Plan, GW-297, covering the Jal facility formerly owned by Quality Oil Service. It is the understanding of OCD that Chaparral Service, Inc. has acquired certain assests of Quality Oil Service including the facility covered by discharge plan GW-297. Notification to the OCD of change of ownership is required pursuant to Water Quality Control Commission (WQCC) regulations under Section 3111.

Kindly furnish the OCD with the date of transfer from Quality Oil Service to Chaparral Service, Inc. Be advised compliance with the terms and conditions of the discharge plan will be the responsibility of the owner. A request for transfer of the discharge plan, GW-297, is required by the OCD immediately.

If you have any questions contact me at (505) 827-7156.

Sincerely,

W. Jack Ford, C.P.G.
Environmental Bureau

Enclosure (1)

cc: Hobbs District Office

April 6, 1998

William H. (Bill) Brininstool has sold XL Transportation Company, Salado Brine Sales, and Jet Disposal System, Inc. to Quality Oil Service, Inc. effective March 21, 1998.

The new address for "QOS" in Jal:
Quality Oil Service, Inc.
P. O. Box 1060
Jal, NM 88252

The new remit to address:
Quality Oil Service, Inc.
P. O. Box 4346, Dept. 297
Houston, TX 77210-4346

All certificates of insurance have been mailed, but I am enclosing a copy of insurance binder. If you did not receive your certificate of insurance please let me know and I will have insurance company issue another.

Quality Oil Service, Inc. agrees to honor all previous agreements made and entered into by XL Transportation Company. "QOS" looks forward to continuing servicing your account.

Cordially,

Christine Brininstool
General Manager

DATE: 2/2/98

To ROGER ANDERSON - NMOCD

505-827-8177

From

WAYNE PRICE - ENVIRONMENTAL ENGR. - NMOCD DISTRICT I

Energy & Minerals Department

Telephone Number 505-393-6161 FAX # 505-393-0720

- ☐ For Your Files
- ☐ Prepare a Reply for My Signature
- ☐ For Your Review and Return
- ☐ For Your Information
- ☐ For Your Handling
- ☐ For Your Approval
- ☐ As Per Your Request
- ☐ For Your Signature
- ☒ Please Advice
- ☒ For Your Attention

XL - CITY of JAL NM

TOTAL # of PAGES INCL COVER 5

NMOCD INTER-OFFICE CORRESPONDENCE

TO: File of XL Transportation Co.

From: Wayne Price-Environmental Engineer

Date: 1-30-98

Reference: Complaint from NM State Police about possible illegal dumping of chemicals into the City of Jal, NM city sewer system. Report taken by NMOCD Paul Kautz on Wednesday Jan 28, 1998.

Subject: Field Inspection Trip on 1-30-98 with Chris Williams, NMOCD.

Comments:

KBIM local tv coverage has been covering the story and had contacted the NMOCD District I office concerning NMOCD's investigation plans.

Met Fred Seifts, Public Works Director at City Hall. Mr. Seifts gave overview of problem. They began receiving complaints from residents in area of 1st and 2nd streets on Tuesday, January 27. Strong chemical smell, gasoline smell, glue smells and in one case a rotten egg smell. Some residents were evacuated out of their homes.

On Wednesday, January 28, city employees had traced the problem back to the area near the XL Transportation Co., an oilfield service company. The city had collected sewer water samples above (upstream) and below (downstream).

Toured area with Mr. Seifts, and had an interview with Bill Brininstool, owner of XL. Inspected XL's wash pad sump. Discovered sump contained (BTEX) type odors. Ran PID found extremely high values of organic hydrocarbons. Olfactory smells were similar to paint thinner solvent like toluene and/or xylene. Mr. Brininstool indicated his company still uses and sells toluene but does not know how these chemical constituents got into the sump. Chris Williams and I advised Mr. Brininstool to conduct an internal investigation of his employees and operations to determine the cause of this problem. Mr. Brininstool advised us he would.

Conducted PID/TDS sampling of various city of Jal sewer manhole openings and XL wash pad sump. Took pictures of sump area. A recent spill appears to have been covered with fine caliche.

See attached pictures, field sketch and field findings.

Preliminary findings indicate the source appears to be the XL sump. After a telephone conference with Roger Anderson and Bill Olsen of the NMOCD Environmental Bureau, a decision was made to recommend to XL to conduct area sampling to determine if XL's sump is a problem. NMOCD will split samples.

Williams and Price made recommendation to Mr. Brininstool. Mr. Brininstool called Cardinal Lab and set up a sampling appointment.

Met Cardinal Lab personnel at approximately 4PM and XL representative, Rule Gatewood and city of Jal's public works director, Fred Seifts.

Took samples, see sampling chain of custody and attached photos.

Price and Seifts collected samples for state lab. These samples had previously been collected by city of Jal employees on Wednesday, January 28, at approximately 10 AM. These samples were noted to have the same identical olfactory smell that was experienced and observed at the XL sump.

Price and Seifts met with XL rep Rule Gatewood. Recommended to XL to isolate and contain all water in sump. Mr. Gatewood was going to plug inlet of sump.

cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Bill Olson-Environmental Bureau, Santa Fe, NM

attachments- pictures, field sketch & notes, chain of custody.

Mr. Johnny Vigil
City Police
Vigil

Jal N.M.

XL Transportation
dumping oil sewer [illegible]

smells like gasoline etc.
Jal [illegible] Plant

Wayne Price overflowing
frac water

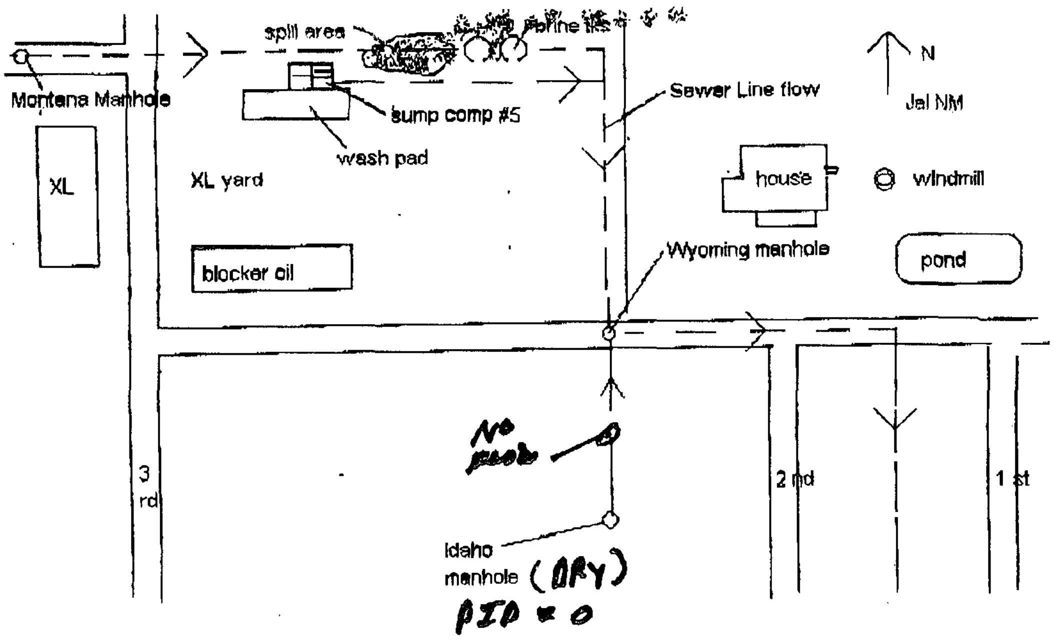
1-28-98
2:00 PM
Chris +
Wayne

Johnny Vigil Jal N.M. Police called

someone has been dumping in
the sewer lines. Vigil & city water
traced it to just below XL transporting
and saw this from XL [illegible]
OK. [illegible] smells [illegible]
has been going on for a while
XL refused to do anything about
overflow. I told Vigil that Wayne
Price would check it out. If gasoline
will have to turn over to ED.
Does XL have a discharge
plan. Vigil said if nothing is
done he will turn over to EPA

Johnny Vigil lives in Jal & can be contacted at City Police and would like to be kept informed.

Paul



FIELD SKETCH : TOOK PICTURES 1/30/98 BY W PRICE - NMOCD
WITNESS: C WILLIAMS

PID READINGS

		PID
XL SUMP COMP #5 ≈ 12 NOON	HELD ABOVE WATER IN SUMP	691 PPM (BTEX) PAINT THINNER SMELL
	COLLECTED SAMPLE USING 3' PE BAILER - RAN HEADSPACE IN QT JAR	>2500 PPM (BTEX) CLEAR WATER TDS 1700 MMHOS STRONG BENZENE-LIKE ODOR
XL SUMP COMP #5 OUTLET TO CITY SEWER	TDS SUMP MMHOS — CITY 400 MMHOS (see below)	
MONTANA MANHOLE 12:20 PM	• HELD ABOVE WATER FLOW	PID "ND" (BTEX)
	• COLLECTED WATER SAMPLE QT JAR - HEADSPACE	PID 0-5 PPM SEWAGE SMELL ONLY 0-10% TURBID / TDS 750
WYOMING MANHOLE	• HELD ABOVE WATER FLOW	PID 45 PPM (BTEX)
	• COLLECTED WATER SAMPLE QT JAR - HEADSPACE	161 PPM SAME SMELL AS XL SUMP 0-10% TURB TDS 700 MMHOS

TDS SUMP MMHOS (CITY 400 MMHOS):

	#1	#2	#3	#4	#5
TOP	3000	1800	1000	1000	1000
MID					3900
BOTT	13,000	13000	5000	5000	5000

American Environmental Network (NM), Inc.

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 1/30/98 PAGE: 1 OF 1

AEN LAB ID:

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: WAYNE PRICE

COMPANY: NMOCD

ADDRESS: P.O. 1980
HOBBS N.M 88241

PHONE: 505-393-6161

FAX: 505-393-0720

BILL TO: S.A.R.

COMPANY:

ADDRESS:

ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	MATRIX	NO.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8021)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (601/8010)	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:
XL SUMP #5	980130 1645	1/30/98	445pm	1												X									
" " "		1/30/98	415pm	"																					
Wye MW-9	980130 1720	1/30/98	520pm	"												X			X						
" " "	"	"	"	"																					
																			X						
Trip Blank																									
MONTANA	980129 1000	1/30/98	548pm	2											X										
2nd MW-9	980129 1000	1/30/98	550pm	"											X										
PANTHER	980128 1000	1/30/98	535pm	"											X										

PROJECT INFORMATION

PROJ. NO.: 2ND SUMP

PROJ. NAME: XL JAL NM

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS:

CUSTODY SEALS: Y / N / NA

RECEIVED INTACT: Y / N

BLUE ICE: Y / N

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72h ☐ 1 WEEK ☐ NORMAL ☒

CERTIFICATION REQUIRED: ☒ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐ SAMPLES ON ICE!

XL #5 TAKEN USING CLEAN PE BAILER 0-3'

980130 1720 TAKEN USING CLEAN QT JAR AS BAILER

WITNESS: FRED SEIFTS / CHAD JAL

RELINQUISHED BY:

Signature: Time: 8:00AM

Printed Name: WAYNE PRICE Date: 1/30/98

Company: NMOCD

RECEIVED BY:

Signature: Time:

Printed Name: Date:

Company:

RELINQUISHED BY:

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY: (LAB)

Signature: Time:

Printed Name:

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice

Notice of Publication

~~and numbered~~ .... ~~in the~~

.... ~~County Court of Lea~~

~~County, New Mexico,~~ was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~once each week on the~~ ~~same day of the week~~ for one (1) day ~~consecutive weeks,~~ beginning with the issue of April 5, 1998

and ending with the issue of April 5, 1998

And that the cost of publishing said notice is the sum of $50.00

which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 16th day of April, 1998

Jean Serier

Notary Public, Lea County, New Mexico

My Commission Expires September 28 1998

LEGAL NOTICE
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 application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, *Telephone (505)* 827-7131:

(GW-297) - XL Transport Company, Christine Brininstool, (505) 395-2010, P. O. Drawer A, 113 North 3rd Street, Jal, New Mexico 88252, has submitted a discharge appliation for the XL Transport Company facility located in the SW/4 NW/4 of Section 20, Township 25 South, Range 37 East and the SE/4 NE/4 of Section 19, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per month of waste oil and solvents are collected in fiberglass storage tanks then transported offsite for disposal. Ground water most likely to be affected in the event of an accidental discharge is at an estimated depth of a approximately 40 feet with a total dissolved solids concentration ranging from 700 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 obtain further information* from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) 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 application(s), 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 b submitted 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.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, *on this* 25th day of March, 1998.

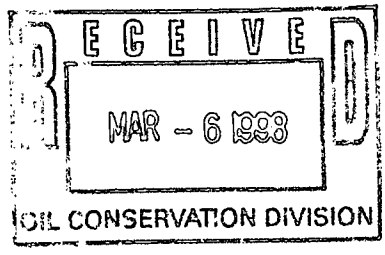
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY,
Director

SEAL

Published in the Lovington Daily Leader April 5, 1998.

XL TRANSPORTATION COMPANY

P.O. DRAWER A
JAL, NEW MEXICO 88252
505-395-2010 800-748-2265
FAX 505-395-2914



March 3, 1998

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

GW-297

Attention: Mr. W. Jack Ford

Re: Discharge Plan Requirement
XL Transportation Company
Lea County, New Mexico

Dear Mr. Ford,

XL Transportation Company is providing a discharge plan to you, to the Hobbs OCD office and to the attorneys representing XL Transportation.

My understanding the filing fee is fifty dollars and the "flat fee" for oil and gas service companies is one thousand, three hundred and eighty dollars. A total of one thousand four hundred and thirty dollars.

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

Cordially,

Christine Brininstool

Christine Brininstool
Office Manager

DISCHARGE PLAN
XL TRANSPORTATION COMPANY
113 NORTH 3RD STREET
JAL, NEW MEXICO 88252
March 3, 1998

Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

Revised 1

Submit C
Plus 1
to Sa
1 Copy to appr
District

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 application)

☒ New ☐ Renewal ☐ Modification

1. Type: Transportation of liquids for the oilfield in Southeastern New Mexico
2. Operator: William H. Brininstool dba XL Transportation Company

   Address: P. O. Drawer A, 113 North 3rd Street, Jal, NM 88252

   Contact Person: Chris Brininstool Phone: 505-395-2010
3. Location: S/W S/E /4 N/W N/E /4 Section 20 19 Township 25S 25S Range 37E 37E

   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 facility
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 waste 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 included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD 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 knowledge and belief.

NAME: Christine Brininstool Title: Office Manager

Signature: Christine Brininstool Date: March 3, 1998

TYPE OF OPERATION

XL Transportation Company provides transportation of liquids for the oilfield in Southeastern New Mexico and West Texas.

LEGALLY RESPONSIBLE PARTY

William H. Brininstool
P. O. Drawer A, 113 North 3rd Street
Jal, New Mexico 88252
505-395-2010

Contact person

Chris Brininstool
Phone and address, same as above

LANDOWNER

William H. Brininstool
P. O. Drawer A
Jal, New Mexico 88252

lined?

FACILITY DESCRIPTION

Block 65, Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14 located West side of 3rd street in the S/E ¼ of the N/E ¼ of Section 19 Township 25S Range 37E of the City of Jal. The facility consists of a main office, 3 bay shop building, truck yard, and employee parking. The first bay in the shop building is used to store bulk containers of lubricants for trucks. These bulk containers are stored on metal racks, which is on a concrete floor that is slopping to a sump that has compartments for separation. All lubricants are stored in this area to provide containment if a spill occurs. Used lubricants are disposed into a 500-gallon fiberglass tank that is on a concrete pad with a concrete berm. A shop heater is located in the third bay. Burning contents from the 500-gallon tank in the shop heater beneficially reuses waste lubricants. In the event of excess waste, it will be disposed in accordance with OCD rules and regulations. Block 1, lots 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10, located East side of 3rd street in the S/W ¼ of the N/W ¼ of Section 20 Township 25S Range 37E of the City of Jal. This area consists of two 500-barrel fiberglass KCL storage tanks with berm, above ground diesel storage with plastic lined pit and berm, discontinued sump with paved loading ramp, and truck parking.

MATERIALS STORED OR USED AT THE FACILITY

2-500 barrel fiberglass KCL tanks bermed?
1-10,000 gallon diesel tank - AST? - bermed?
1-500 gallon waste oil tank
250 gallon grease tank
55 gallon drum of antifreeze
500 gallon motor oil
250 gallon pump oil
500 gallon solvent tank
300 gallon soap tank

Secondary containment?

SOURCES AND QUANTITES OF EFFLUENT AND WASTE SOLIDS GENERATED AT THE FACILITY

Used oil and solvents are disposed into the above ground 500-gallon fiberglass tank. This tank is on a concrete floor with concrete berm. The heater in shop burns the waste collected in the 500-gallon tank.

amount/da /mo or/yr.?

Used oil filters are drained and placed in a plastic bag for disposal by Waste Management. No trucks are washed at this facility. Approximately 50 gallons of waste is disposed each month.

INSPECTION, MAINTENANCE AND REPORTING- SPILL/LEAK PREVENTION AND REPORTING PROCEDURES (CONTINGENCY PLANS)

Bulk storage containers in the shop are inspected daily. Three mechanics work in the shop 6 days a week, a supervisor is in and out of the shop 7 days a week, and out of 25 truck drivers one or more will be in the shop greasing, repairing, or servicing a truck every day. Drivers will diesel up trucks in the mornings and evenings, and supervisors view diesel storage daily. KCL storage tanks are inspected on a daily basis, as a truck driver will get a load out of tanks or unload into tanks. Significant spills and leaks will be reported immediately to the NMOCD district office in Hobbs.

SITE CHARACTERISTICS

A Map showing cross-section, vertical and horizontal limits of all groundwater having less than 10,000/1 TDS with table of explanation is included. Also copies of generalized and specific maps and cross-sections depicting both regional and site-specific geology. Please refer to the following report: Ground Water Report #6, Geology and Ground Water Conditions in Southern Lea County, New Mexico, United States Geological Survey, State Bureau of Mines and Mineral Resources, New Mexico Institute of Mining & Technology. Maps of facility location by county and city are provided.

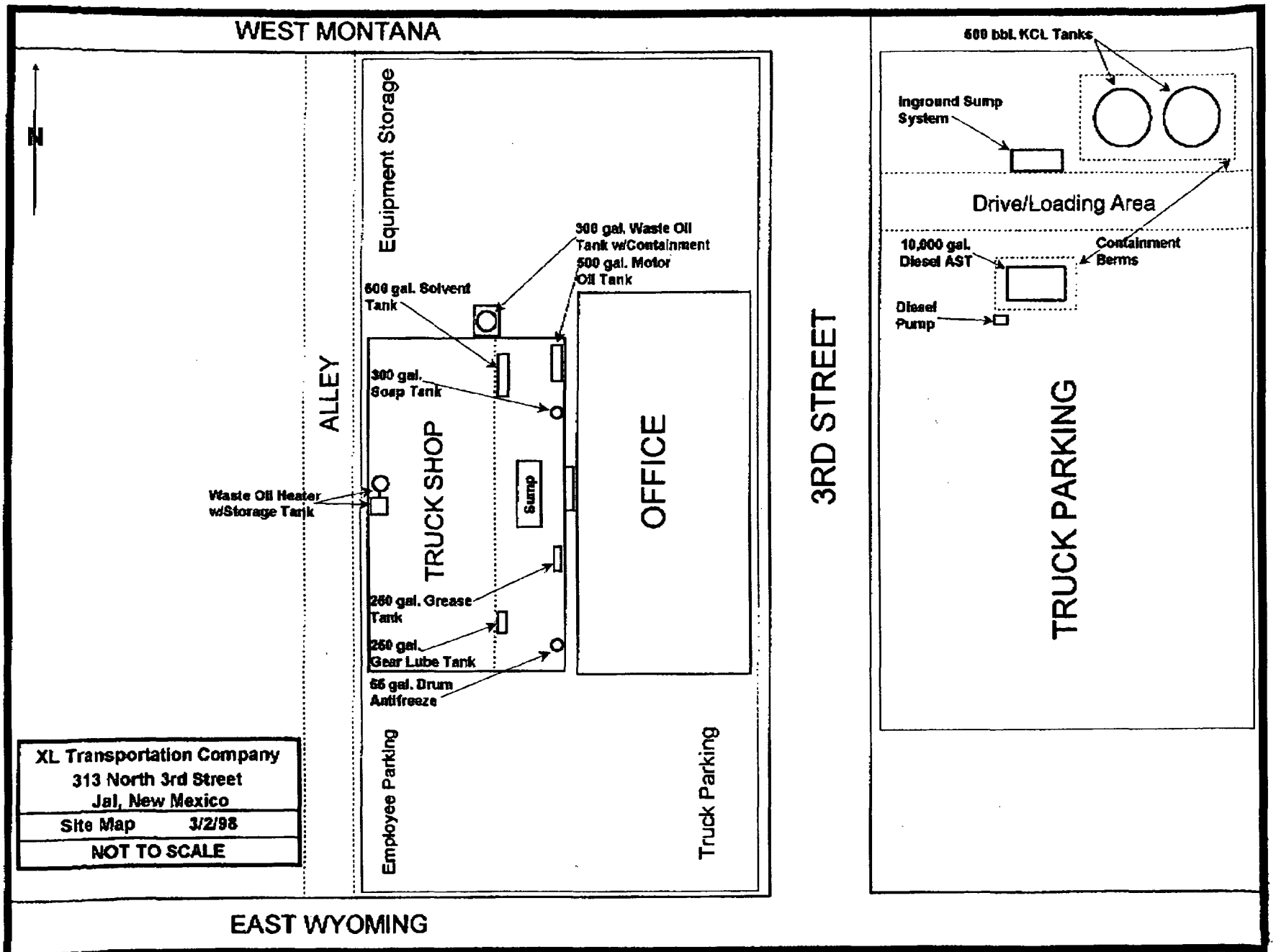
Precipitation and/or run off are into the curbed and paved streets of Jal.

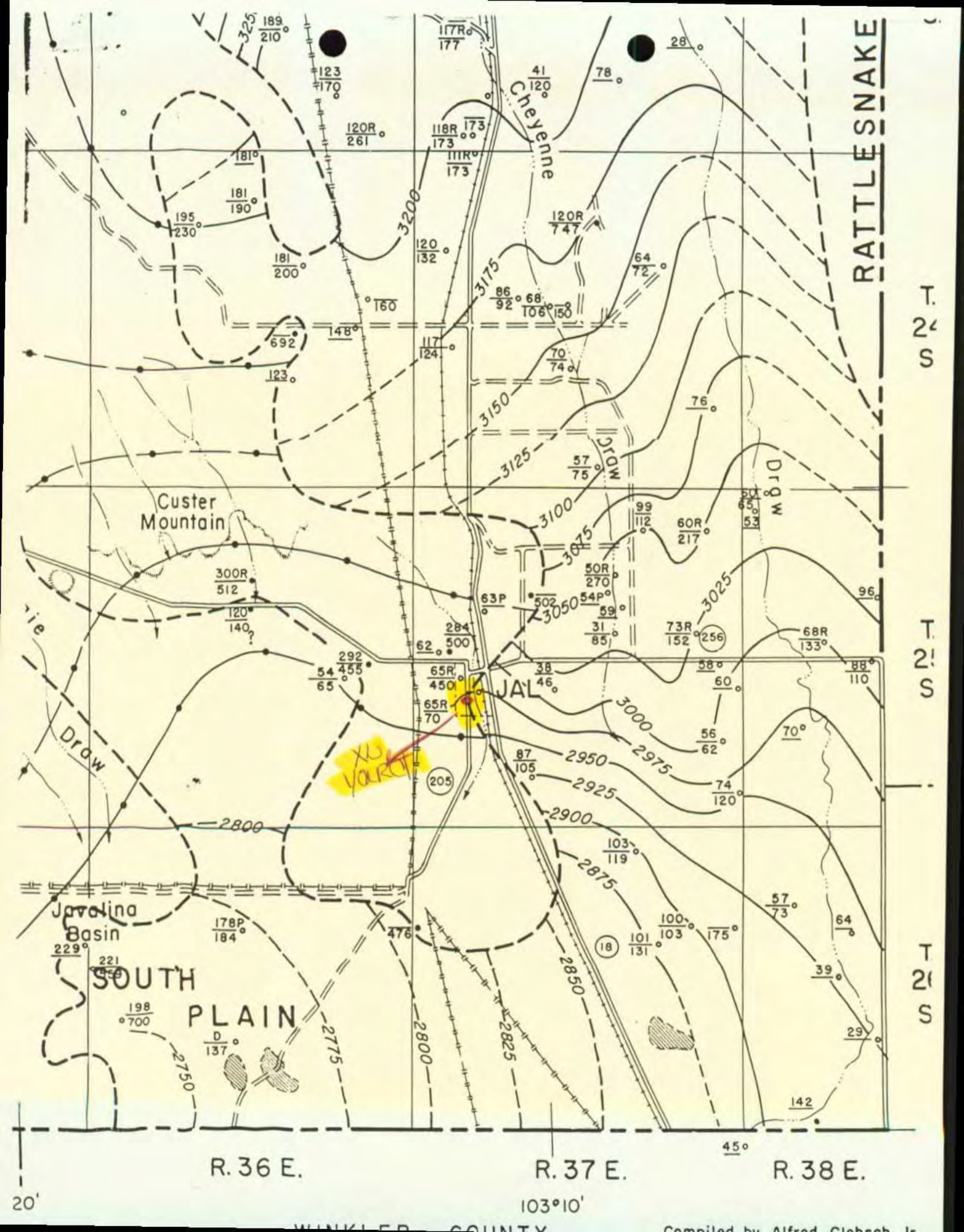
FACILITY CLOSURE PLAN

All reasonable and necessary measures will be taken to comply with the WQCC and NMOCD rules and regulations should XL Transportation Company choose to permanently close the facility. XL Transportation Company will submit a detailed closure plan to the NMOCD prior to closure.

General, closure measures will include removal of all above ground tanks and equipment. All wastes will be removed from the site and properly disposed in accordance with the rules and regulations in place at the time of closure.

Should contaminated soil be discovered, any necessary reporting under NMOCD or WQCC will be made and clean-up activities will commence. Post-closure maintenance and monitoring plans would not be necessary unless contamination is encountered.


WEST MONTANA
N
Equipment Storage
ALLEY
300 gal. Waste Oil Tank w/Containment
500 gal. Motor Oil Tank
600 gal. Solvent Tank
300 gal. Soap Tank
Waste Oil Heater w/Storage Tank
TRUCK SHOP
Sump
OFFICE
260 gal. Grease Tank
250 gal. Gear Lube Tank
55 gal. Drum Antifreeze
Employee Parking
Truck Parking
3RD STREET
500 bbl. KCL Tanks
Inground Sump System
Drive/Loading Area
10,000 gal. Diesel AST
Containment Berms
Diesel Pump
TRUCK PARKING
XL Transportation Company
313 North 3rd Street
Jal, New Mexico
Site Map 3/2/98
NOT TO SCALE
EAST WYOMING


RATTLESNAKE
Cheyenne
Custer Mountain
Draw
Draw
JAL
Javelina Basin
SOUTH PLAIN
3200
3175
3150
3125
3100
3075
3050
3025
3000
2975
2950
2925
2900
2875
2850
2825
2800
2775
2750
2800
R. 36 E.
R. 37 E.
R. 38 E.
T. 24 S
T. 25 S
T. 26 S
20'
103°10'

EXPLANATION

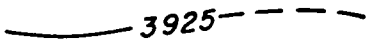
150
252

Water well

Upper figure is depth to water; lower figure is depth of well. Open circles are wells finished in Tertiary or Quaternary rocks; solid circles are wells finished in Triassic rocks

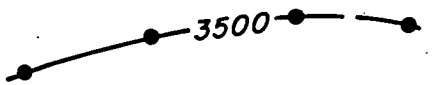
F = Flowing
R = Reported
P = Water level measured while pumping
D = Dry
? = Uncertainty as to aquifer
> = More than
< = Less than

(See tables 6 and 7 for detailed well data.)



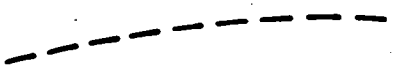
Water-table contour in Tertiary or Quaternary rocks

Dashed where inferred or uncertain. Contour interval 25 feet. Datum mean sea level



Water-table or piezometric contour on water body in Triassic aquifers

Dashed where inferred or uncertain. Contour interval 100 feet. Datum mean sea level



Approximate position of boundary between Triassic rocks and saturated Tertiary and Quaternary rocks

20'

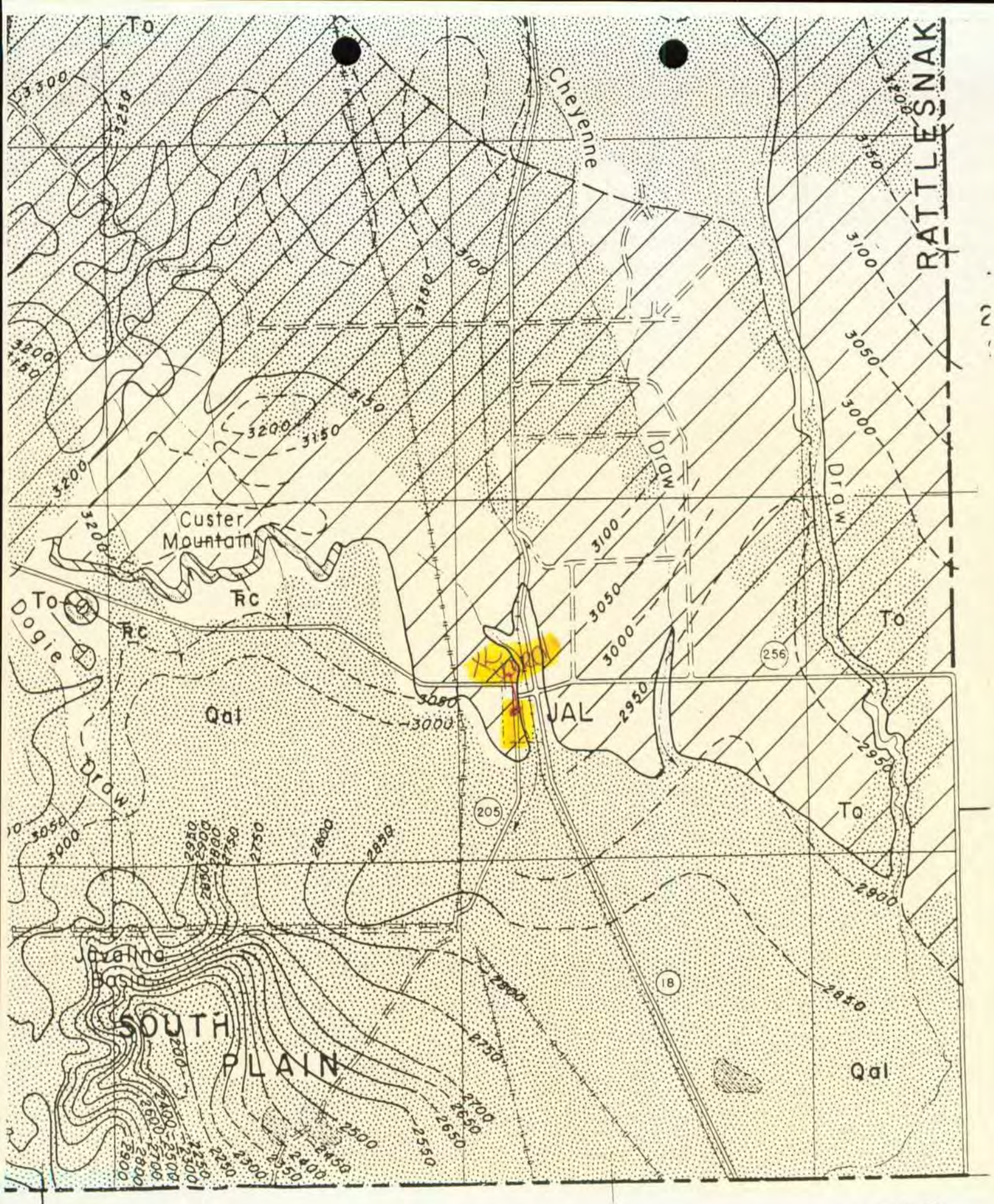
103°10'

R. 36 E.

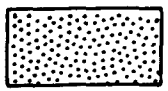
R. 37 E.

R. 38 E.

R. 39 E.

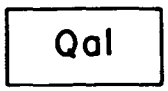

To
Cheyenne
RATTLESNAK
Draw
Draw
Draw
Custer
Mountain
Rc
Rc
To
Dogie
Qal
JAL
256
205
18
To
To
Qal
Javalina
Basin
SOUTH
PLAIN
R. 36 E.
R. 37 E.
R. 38 E.
20'
103°10'
WINKLER COUNTY
Geology by Alexander Nicholson,
Contours on buried red-bed sur
compiled by Alexander Nicholsor

EXPLANATION



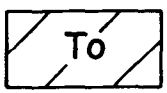
Sand

Thin cover of drift sand in most places; locally dunes 20-40 feet high



Alluvium

Sand and gravel along dry washes; silt and sand in lake beds; includes some wind-deposited sand around depressions



Ogallala formation

Chiefly sand, poorly to well-cemented with calcium carbonate; contains some clay, silt, and gravel; capped in most places by caliche

Pleistocene and Recent

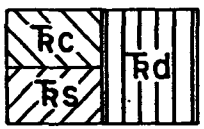
Pliocene

QUATERNARY

TERTIARY

Cretaceous rocks, undifferentiated

Slumped blocks of buff, tan, or white fossiliferous limestone



Dockum group

TRC-*Chinle formation, red and green claystone, minor siltstone, and fine-grained sandstone;* TRS-*Santa Rosa sandstone, red to white poorly sorted, coarse-grained, crossbedded sandstone;* TRd-*rocks of the Dockum group, undifferentiated*

Upper Triassic

CRETACEOUS

TRIASSIC

Contours on the red-bed surface

Dashed where approximate or inferred. Contour interval 50 feet. Datum mean sea level

Geology by Charles B. Hunt, 1974 - 1976 Cartography by Nedra M. Pearson, 1976

DESERT PAVE[illegible]

Not shown on map. Consists of a single layer of closely spaced stones angular or rounded, over a [illegible] layer of loam and silt. Stones collect at the surface by a sorting action, apparently due to frost and or salt heaving, or swelling and shrinking of clay. Silt layer beneath the pavement may be partly eolian in origin. In general, [illegible] the state, thickness of silt increases from about 1 to 12 inches with increasing age of the surface, due to advanced weathering and rock disintegration. Some [illegible] of desert pavement also form where wind or water removes [illegible] sediments, leaving behind the coarser [illegible] deposits. While desert pavement [illegible] high runoff it protects the ground from erosion

CAVE DEPOSITS

Not shown on map. Commonly have gravel at base, recording an early stage of substantial water flow that eroded the cave. The gravel is overlain by clay or ochre deposited as the flow of water diminished, and this in turn is overlain by stalagmites. Stalagmites are overlain by dust. Fossil remains of Pleistocene animals may occur in deposits below the stalagmites; remains of Holocene animals characterize the overlying deposits. Other cave deposits occur in basaltic lavas, especially in the area southwest of the Zuni Mountains. These deposits include blocks fallen from the roofs, dust and some ice

ORGANIC DEPOSITS

Not shown on map. Accumulations of fibrous peat in sedge marshes border many New Mexico lakes. Both fibrous and woody peat accumulated in small, poorly-drained depressions and mountain meadows. Mostly less than 15 ft

DESERT VARNISH

Not shown on map. A black stain of iron and manganese oxides on bare rock surfaces and on pebbles of desert pavement. Predates prehistoric pottery-bearing occupations of the region. Predominantly middle Holocene, partly late Pleistocene. Many of these stained surfaces have petroglyphs carved by prehistoric peoples

TRANSITIONAL DEPOSITS

Deposits transitional between those formed in situ and those transported; deposits moved downslope chiefly by gravity, particularly slow creep (colluvium). Also includes rock falls. Landslides and avalanches are shown as periglacial features

Colluvium includes the heterogeneous mantle of soil and rock fragments derived from residuum, bedrock, and/or unconsolidated surficial deposits moved slowly downslope by gravitational force and sheet wash. Slopes generally steeper than 20 percent. Mass wasting, the process causing debris to move downslope, is aided by added weight and lubrication of water-saturated debris, frost heaving, alternate wetting and drying of clays, crystallization of salts, growth of roots, burrowing and trampling by animals, falling of trees, and impact of hail or rain. These, like other erosional processes, may be accelerated by man's activities

Colluvium is basically a chaotic mixture of angular rock fragments and finer grained materials. In New Mexico colluvium is generally less than 10 ft thick (rarely 25 ft or more) but may grade into thick cones of debris at bases of hillsides. In the northeast and northwest parts of the state where steep shale slopes underlie resistant caprock of sandstone or lava, two, and locally three, ages of colluvium may be distinguished. These are thought to be mid-Holocene, late Wisconsinan and early Wisconsinan, respectively. Such occurrences provide an index of retreat of cliffs. Some shale slopes are armored and protected against erosion by blocks of the caprock.

On long dip slopes such as flanks of the Zuni Mountains and east flank of the Sacramento Mountains, the colluvium is generally thin (commonly 1 to 2 ft thick) except near the base of steep hillsides and is composed of the resistant rock forming the dip slope. Some of this colluvium could as well be mapped as stony residuum over limestone. Hillsides on granitic and volcanic rocks may also be overlain by thin but bouldery sandy colluvium. Colluvium on steep, faulted mountain fronts consists of a mixture of stones representing all the exposed formations upslope

co COLLUVIUM — *Subscripts indicate the underlying hillside formation (e.g., co'Tv, colluvium on Tertiary volcanic rocks)*

TRANSPORTED DEPOSITS

Most surficial deposits are rocks and particles weathered from bedrock in one area, transported by water, wind, ice, or gravity to an area of deposition, and are susceptible to further erosion and transportation. These deposits are much younger than and unrelated to the underlying bedrock. They are classified according to their mode of transportation to the site of deposition

ALLUVIUM IN FLOODPLAINS AND STREAM CHANNELS

Well stratified sandy and silty stream deposits with gravel lenses; gravel terraces along valley sides. Generally alluvial deposits record complex response to Quaternary climatic shifts. In New Mexico climates were comparatively wet during the Pleistocene glacial stages. Conversely, during the interglaciations, climates were drier, with conditions similar to Holocene environments. Alluvial deposits locally contain fossils, including bones of mammals and rodents, and shells of freshwater snails and clams. Late Pleistocene deposits contain fossil remains of extinct animals such as elephants, camels, horses (not reintroduced until the arrival of the Spaniards), sloths, and long-horned bison. Archaeological remains are common in and on Holocene deposits and help date them. Three ages of alluvium generally can be distinguished: late Pleistocene, mid Holocene, and historic. At least three recognized types of alluvial floodplain deposits reflect relative capacity for sediment transport by the main stream and its tributaries. A fourth type along the Pecos River in the southeastern part of the state, is characterized by saline ground. A fifth is restricted to basalt-capped mesas.

al₁ → **al_1** FLOODPLAIN AND CHANNEL DEPOSITS ALONG MAIN STREAMS — *Generally flat but includes terraces to about 10 ft high, shallow curved swales at cut-off meanders, and local stabilized dunes. Mostly sand, silt, and some layers of gravel. Caliche absent or weakly developed in thin veinlets, fibers, coatings on rocks, and soft nodules. Deposits commonly 25 ft thick. Ground water shallow, subject to pollution. Extensively farmed; subject to flooding*

al_2 FLOODPLAIN AND CHANNEL DEPOSITS ALONG GENERALLY DRY ARROYOS AND WASHES — *Includes deposits along some perennial mountain streams. Extent exaggerated to emphasize drainage patterns. Sandier than al_1, gradients 5 to 15 percent. Arroyos 10 ft deep common. Surface flat where deposit was formed by stream overflowing its banks, hummocky where built of coalescing fans at mouths of tributaries that crowd the main stream against its far bank (a V-shape) where alluvium grades laterally into fan sand washed from adjoining hillsides. Ephemeral perched water tables under some deposits. Width of deposits represented [illegible] been exaggerated but total area probably about right because [illegible] to be omitted*

al_3 COALESCING SILTY AND SANDY ALLUVIAL FANS — *Intermediate between al_1 and [illegible] fan deposits fs and fsi*

al_4 SALINE ALLUVIUM — *Borders Pecos River south of Fort Sumner*

al/b ALLUVIUM OVER BASALT — *Restricted to basalt-capped mesas [illegible] in old valleys; thickness [illegible]*

tg GRAVEL TERRACES — *Well-rounded stream gravels with cobbles 6 inches or more in diameter; some terraces 250 ft higher than the streams. Especially well developed along the San Juan River, less so along the Pecos, Gila, and Canadian Rivers; most represent deposits by Pleistocene melt waters from mountains. Abundant caliche deposits, especially on the higher terraces, which may be Kansan; lowest are Wisconsinan*

ALLUVIAL FAN DEPOSITS

In alluvial fans, unlike floodplain alluvium, beds tend to be thick, massive, and highly lenticular rather than well stratified. This is characteristic of all the facies, whether boulder, gravel, sand, or silt. Beds lenticular and elongated down the slope of the fans; slopes 2 to 20 percent. Deposition mostly by flash floods, with poor sorting and mixed textures. Coarse-textured lenses commonly form ridges extending down the fan onto generally finer grained sediment. Boundaries between the textural facies of the deposits roughly parallel the fan contour, but detailed boundaries are irregularly lobate; those shown are approximations. Fan textures and slopes depend partly on composition of the parent rocks and partly on height and steepness of the bordering hill or mountain. Fans extensive in the Basin and Range part of the state where they comprise about half the total area; in other parts of the state, fans are small. On the larger fans, arroyos become shallower towards the toe; many head at low mounds that probably mark old mudflows. Ground subject to sheet flooding

fg GRAVEL FACIES — *Bouldery towards apex of fan, grading downslope to cobble and fine gravel with increasing proportion of sand and finer grained material. Commonly dissected to form 2 to 3 levels of gravel benches up to 50 ft above present washes. A few streams (e.g., Mulligan Wash, Alamosa River, Cuchillo Negro Creek, and Rincon Arroyo are incised 100 ft below fan surfaces. On short, steep fans, depths of valleys generally decrease downslope. On the broad Palomas surface, west of the Rio Grande above Hatch, valleys maintain their depth. Except near the apex, extensive surfaces have smooth desert pavement. On short, steep fans, gravels show minimal weathering and are weakly cemented with caliche; age probably Wisconsinan and Holocene. On broad, more gently sloping fans, gravels are more weathered and commonly cemented by caliche; age probably pre-Wisconsinan. In south half of the state, gravel facies is characterized by creosote bush cover. Thin alluvial gravel covering pediments is denoted by fg over subscript that identifies parent formation*

fs SAND FACIES — *Sandy alluvium with subordinate amounts of fine gravel, silt, and clay. Forms at least four kinds of ground: 1) On short, steep fans sloping from the mountains of granitic or gneissic rock (e.g., parts of the Florida Mountains), this facies may form a smooth sandy layer a few feet thick covering gravel below; slopes 5 to 20 percent; washes 1 to 10 ft deep may expose underlying gravel. 2) On other short fans, sand facies may form arcuate belt at toe of fan with slopes averaging 10 percent, commonly reworked into coppice dunes 3 to 7 ft high (sm). 3) Other belts of smooth sandy ground commonly slope 5 percent or less and consist of sand mounds approximately 1 ft high over caliche (fs_1). 4) Gypsiferous sand (fs_3), especially in the Jornada del Muerto, Tularosa Valley and east side of the Pecos Valley. Sand facies absent on the broad Las Palomas surface. Thin fan sand covering pediments is denoted by fs over subscript that identifies underlying formation. Boundary with residual sand, fan gravel, and fan silt is approximate*

fsi SILT FACIES — *In Basin and Range parts of the state, toes of fans may be silty and clayey rather than sandy; surface smooth, with slopes less than 5 percent. Slow infiltration rates and low slopes result in sluggish runoff. Forms a belt below the sand facies and grades downward to playa silt (psi) with slopes less than 2 percent. Abundant swelling clays and exchangeable sodium. Surface layers predominantly Holocene; subject to sheet flooding, gradational with al_3. East and west of Sangre de Cristo Mountains, also forms fans of sandy or silty loam with little gravel in upper 3 to 4 ft, but abundant gravel below the loam. Caliche soft. Includes loess on isolated hilltops. Boundary with residual loam (rl), playa silt (psi), and fan sand (fs) approximate*

EOLIAN DEPOSITS

Eolian deposits are laid down by wind, mostly as sheets of sand or silt (loess). Rarely, after prolonged drought on shale desert in the San Juan Basin, shale flakes may accumulate in rippled sheets or even small dunes, but with the next rain, these become mud. Sand dune shapes depend on topography, relative strength of the winds, supply of sand, and vegetation. Some dunes are concave towards the windward (parabolic), others are concave towards the leeward (barchans), and others are longitudinal or transverse. Some dune clusters (e.g., Great White Sands) have all four kinds. Dunes may climb a windward slope or fall on a leeward slope. Most of New Mexico's eolian sand sheets have a basal layer of weathered, partly cemented, reddish stabilized sand; some sand surfaces on such layers are smooth. In the Basin and Range and Great Plains parts of the state, these surfaces are generally underlain by caliche; in the San Juan Basin, sand sheets commonly overlie residuum, fan deposits, or bedrock. Where sand is thick, as on sand facies of fans in the Basin and Range and at climbing dunes east of the Pecos River (Mescalero Sands) the sand is in mounds (coppice dunes) with profuse growth of vegetation -- mesquite, and saltbush in the Basin and Range; sand sage, shinnery oak, small soapweed yucca, and occasional mesquite on the Mescalero Sands. Sand sheets are predominantly late Pleistocene; mounds and dunes are largely Holocene

s/b SAND UNDERLAIN BY BASALT — *Extensive on basaltic plains south and east of Zuni Mountains and on West Potrillo Mountains. At Kilbourne Hole and Hunt's Hole, the sand is of volcanic origin*

s/ca/QTs SAND UNDERLAIN BY CALICHE ON SANTA FE GROUP — *Mostly on La Mesa and south part of the Jornada del Muerto*

s_1/ca/To THIN SAND ON CALICHE ON OGALLALA FORMATION — *Thickness about 1 ft. Chips of caliche comprise 30 percent of the sand. Generally too shallow for farming, but good shallow source for aggregates*

s_2/ca/To MODERATELY THICK SAND ON CALICHE ON OGALLALA FORMATION — *Sand 1 to 3 ft thick. Surface layers noncalcareous over reddish loam. Local sand mounds. Ground favored for farming. Boundaries approximate*

s_3/ca/To THICK SAND ON CALICHE ON OGALLALA FORMATION — *Sand 3 to 5 ft thick. Local mounds. Brownish-red, fine sandy loam over reddish-brown, sandy clay loam; noncalcareous to depths of 3 ft; calcareous subsoil contains filaments of lime carbonate. Where farmed, ground is subject to wind erosion. Boundaries approximate*

sm LOOSE SAND IN MOUNDS — *Coppice dunes, commonly 3 to 7 ft high and 25 to 50 ft in diameter; generally elongated north of east but a local exception lies east of Columbus where elongation is south of east. Age is Holocene. Boundaries fairly accurate*

es, s SAND SHEETS — *Surfaces smooth except for ripples 2 to 3 inches high and scattered sand mounds 3 to 12 inches high, especially around small shrubs. Thickness of loose sand generally no more than about 12 to 24 inches, but commonly overlies stabilized sand. Underlying material where known identified by subscript*

ds LONGITUDINAL DUNES — *Sand commonly 6 ft thick, locally 10 ft. Forms distinct ridges generally oriented north of east. Locations diagrammatic and width exaggerated*

ds OTHER DUNES — *ds_1, quartzose sand, ds_2, gypsiferous sand*

l/b LOAM ON OLD BASALTIC LAVA — *Probably pre-Wisconsinan loess*

si EOLIAN SILT

EXPLANATION OF SURFICIAL GEOLOGY

by Charles B. Hunt 1977

LAKE AND PLAYA DEPOSITS

New Mexico has five kinds of lake deposits in addition to those forming today in artificial reservoirs. The most extensive deposits were laid down in Pleistocene lakes that flooded closed basins now marked by playas. Many of these deposits in the Basin and Range are alkaline flats. Most numerous are the so-called "buffalo wallows" of the Great Plains on the Ogallala Formation. Some of these wallows are deflation hollows with sand mounds on the lee side; others may be due to solution and collapse of the surface. Still others may be attributed to warping. There are sinkholes clearly due to solution, like Bottomless Lakes, sinks at Santa Rosa, and some of the depressions (related to karst of the San Andres Formation) in covered ground north of the Sacramento Mountains. A fourth type is represented by ephemeral ponds in swales marking cutoff meanders on alluvial floodplains. A fifth type occurs only in the maar volcanoes at Kilbourne Hole, Hunt's Hole, and Zuni Salt Lake. Only the first three types appear on the map. Area of deposits represented has been exaggerated because of map scale, but total area probably about right because smaller deposits are omitted.

psi — SILTY LAKE OR PLAYA DEPOSITS — *Ground mostly bare, gypsiferous deposits labeled psi.*

ps — SANDY LAKE OR PLAYA DEPOSITS — *Gypsiferous deposits labeled psi.*

bs, bg, d — BEACH DEPOSITS — *Sand or gravel, sandy stretches mostly reworked into low dunes. Incompletely shown.*

ev — EVAPORITES — *Saline or alkaline deposits precipitated from brines of playas having high evaporation rates, notably Estancia Valley, Animas Valley, and Zuni Salt Lake. Salts are gradational with playa silt (psi) and occur in orderly concentric zones reflecting relative solubility of the salts. Thicknesses range from 1 to several inches, but salts mixed with silt may be tens of feet deep. Efflorescent crusts subject to wind erosion contribute to salinity of ground to leeward.*

GLACIAL AND PERIGLACIAL DEPOSITS

During the Pleistocene New Mexico had mountain (alpine) glaciers high on the Sangre de Cristo Range, Tusas Mountains, and Sierra Blanca Peak. The source of such glaciers was in nearly circular, steep-sided basins (cirques) at valley heads. High valleys eroded by the glacial tongues tend to be U-shaped; at lower elevations where eroded by streams, these valleys are V-shaped. Gravels deposited along each side of valley ice represent debris that rolled down the mountainside onto the ice to form lateral moraines. Hummocky ridges of sand and gravel deposited across the lower ends of the glaciers form terminal moraines. Within the cirques generally stand two ramparts of boulders. An inner rampart, forming today, is located at the lower edge of the snowbank that accumulates annually in the cirque; it represents rocks broken by frost from the headwall of the cirque, rolled down the snowbank, and collected at the ridge. These inner ridges are treeless. Farther out in the cirque — perhaps at the mouth — is a second ridge, forested, with firm unweathered rock darkly stained with iron and manganese oxide. These outer cirque ridges formed during the mid-Holocene "little ice age."

mg — DEPOSITS AND GEOMORPHIC FEATURES OF PLEISTOCENE MOUNTAIN GLACIERS — *Extent exaggerated.*

pg — PERIGLACIAL DEPOSITS ON MOUNTAIN TOPS — *Primarily represented by boulder fields and patterned ground where frost action was intensive during the glaciations. Extent and boundaries approximate; graded laterally to stony residuum and colluvium.*

av — AVALANCHE DEPOSITS — *Bouldery, some are lag concentrates of boulders where fine-grained sediments have been removed by erosion. Deposits narrow and long downslope; commonly 10 to 50 ft thick. Apparently deposited as mudflows during late Pleistocene time when there were numerous perennial mountain snowfields. Frost action at the time was vigorous; sudden thaws could trigger floods or mudflows on the mountainsides. Slow movement downslope may be reactivated in artificial cuts through these deposits if water enters the plane of slippage.*

lds — LANDSLIDE DEPOSITS — *Abundant on slopes of Cretaceous shale. Whereas avalanche deposits are elongate downslope, landslide deposits are short downslope but wide along the contour. Characteristically, they retain a cap of the lava or sandstone sloping into the hillside atop a steep colluvial-covered shale slope. Stabilized landslides may be reactivated if water is allowed to enter the plane of slippage.*

MISCELLANEOUS TYPES OF GROUND

b — BASALT — *Includes lava flows, lava cones, cones of scoriae, necks, and fields of scoriae. Predominantly Quaternary and late Tertiary; some young enough to have sustained minimal weathering and retained their original structures and shapes, are commonly referred to as malpais (Spanish, bad ground). Includes some Tertiary basalt that conspicuously controls the topography. Locally covered by loam (l/b, eolian deposits, al/b, stream deposits). These older surfaces are more deeply eroded, tilted, and faulted. Individual flows generally less than 50 ft thick; locally, several flows may aggregate a few hundred feet thick. Commonly interbedded with volcanic ash (tuff). Excludes lavas mantled by loess or other sediments, such areas indicated by subscript (e.g., l/b — loam over basalt; fs/b — fan sand over basalt). Boundaries shown are adequate.*

OTHER BEDROCK — *Colluvium or other cover amounts to less than half the area. Only extensive areas are shown; age and rock type keyed by symbol to State geologic map (e.g., Kd, Cretaceous Dakota Sandstone; Trs, Triassic Santa Rosa Sandstone). Many small areas omitted, indicated boundaries are approximate. Principal formations and subscripts used are:*

Qg	*Gatuna Fm.*	TKr	*Raton Fm.*
Qbt	*Bandelier Tuff*	TKoa	*Ojo Alamo Sandstone*
Qrr	*Rhyolite Flows*	Kv	*Volcanics of Cretaceous age; various composition*
QTsf	*Upper Santa Fe Group*	Kkf	*Kirtland Shale and Fruitland Fm.*
QTs	*Santa Fe Group, undivided, and related formations*	Kpc	*Pictured Cliffs Sandstone*
QTg	*Gila Conglomerate*	Kl	*Lewis Shale*
To	*Ogallala Fm.*	Kmv	*Cretaceous sandstone and shale, mostly Mesaverde Fm.*
Tsa	*Lower Santa Fe Group*	Kch	*Cliffhouse Sandstone*
Tc	*Chuska Sandstone*	Kpl	*Point Lookout Sandstone*
Tu	*Alluvial and lacustrine deposits*	Ksh	*Cretaceous shale*
Tca	*Carson Conglomerate (generally equivalent to Los Pinos Fm.)*	Kg	*Gallup Sandstone*
		Km	*Mancos Shale*
		Kd	*Dakota Sandstone*
Tpi	*Picuris Tuff*	J	*Jurassic, undivided*
Tp	*Potosi volcanic series*	Jm	*Morrison Fm.*
Tv	*Tertiary volcanics; largely Datil Fm. in SW; includes some pre-and post-Datil volcanic sequences*	Jz	*Zuni Sandstone*
		TrJ	*Triassic and Jurassic, undifferentiated*
		Tr	*Triassic, undifferentiated*
Tbb	*Baca or Bear Fm.*	Trgc	*Glen Canyon Sandstone*
Tg	*Galisteo Fm.*	Trc	*Chinle Fm.*
Tsj	*San Jose Fm.*	Trs	*Santa Rosa Sandstone*
Tn	*Nacimiento Fm.*	Pa	*Artesia Fm.*
T	*Tertiary sedimentary formations in Raton district*	Pat	*Artesia Group*
TKpc	*Poison Canyon Fm.*	Psa	*San Andres Fm. (limestone)*
TKa	*Animas Fm.*	Pg	*Glorieta Sandstone*
		Pc	*Castile Fm.*

(OF NEW MEXICO

EXPLANATION FOR GEOLOGIC MAPS 40, 41, 42 AND 43

Py	*Yeso Fm.*	P, IP	*Permian, Pennsylvanian*
Pa	*Abo Fm.*	M, D	*Mississippian, Devonian*
Ph	*Hueco Fm.*	S, O, Є	*Silurian, Ordovician, Cambrian*
Pzl	*Paleozoic, undivided*	pЄ	*Precambrian*
Pms	*Madera Limestone and Sandia Fm., undivided*	gr	*Granitic, gneissic, and intrusive rocks of various ages*

Dg — *Disturbed ground. Mostly urban areas large enough to show on state base; farmed lands excluded. Includes airports, mined areas, tailings dumps, and feedlots. Incompletely shown.*

X — *Open pits for road fill, sand, gravel, caliche, or other aggregates*

Playa-lake depressions. Mostly small closed basins produced by eolian activity and local solution subsidence

REFERENCES

Dane, C.H., and Bachman, G.O., 1965, Geologic map of New Mexico: U.S. Geological Survey, Washington, D.C.

Hawley, J.W., Bachman, G.O., and Manley, Kim, 1976, Quaternary stratigraphy in the Basin and Range, and Great Plains provinces, New Mexico and Western Texas, in The Quaternary stratigraphy of North America, W.C. Mahaney, ed: Stroudsburg, Pennsylvania, Dowden, Hutchinson and Ross, p. 235-274

New Mexico State University, Agricultural Experiment Station, Research reports showing soil association and land classification for irrigation for each county

New Mexico State Highway Department supplied data for aggregate resources in New Mexico

Soil Conservation Service, 1/62,500 aerial mosaics of New Mexico Quadrangles

Data from these and other sources were plotted on the 1/250,000 quadrangle maps, field checked with about 40,000 mi of automobile traverses and 20 hours aerial reconnaissance over areas difficult of ground access. Mapping began spring 1974 and was completed June 1976.

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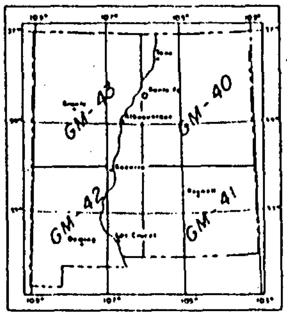


Index map of New Mexico

YUCCA PLANTS

INTRODUCTION

Surficial geology concerns the origin, distribution, and significance of deposits and soils at or near the earth's surface. Completely bare bedrock forms probably less than 5 percent of New Mexico's land surface; consequently surficial materials form by far the largest and most-used part of the ground around us. Several aspects of surficial geology that contribute significantly to an understanding of our environment are water yielding properties of the ground; its susceptibility to flooding and erosion; its susceptibility to such hazards as landslides, avalanches, and earthquakes; ease of excavation; suitability for foundations and road building; agricultural potential, including suitability for irrigation or pasturage; and mineral resources potential.

Surficial materials commonly are poorly consolidated, consisting partly of bedrock weathered in situ (residuum), but mostly of sediments derived by erosion and transported by water, wind, ice, or gravity (mass wasting) to a site of temporary deposition before being further eroded and transported downslope.

Four major categories of surficial materials are distinguished on the map by color: residual materials, transitional deposits, transported deposits, and miscellaneous types of ground.

RESIDUAL MATERIALS

Materials generally formed in place, including: residuum, *formed in situ by weathering of a parent formation;* caliche; travertine and related spring deposits; shale or sandstone baked by coal beds burning in situ (clinker); karst and related deposits in sinks; *and the following, which are not distinguished on the map --* organic deposits; desert pavement; cave deposits; and desert varnish.

RESIDUUM

In New Mexico, residuum tends to be thin, generally less than 2 ft thick -- rarely as much as 5 ft. Texture depends upon composition of parent rock, and ranges from clay to coarse sand; texture may be bouldery in granitic areas. Areas shown as residuum include small outcrops of parent rocks and some alluvial or eolian deposits either mistaken for residuum or too small to show on the map. These materials are predominantly of late Pleistocene (Wisconsinan) or Holocene age. Ground is hummocky with slopes less than 10 percent; scattered small outcrops of resistant beds form small ledges.

rl LOAMY RESIDUUM -- *Texture variable -- mixed clay, silt, and sand. Thickness 1 to 5 ft. Parent formations fine grained, shallow, and identified by subscripts. Where clayey, this residuum generally contains appreciable amounts of swelling clay and is highly susceptible to sodium exchange, especially over the Chinle Formation (subscript Trc), Cretaceous shale (subscript Ksh), and Tertiary clayey volcanic formations. Slopes locally 10 percent and subject to washing. Although the unit is distinctive, the indicated boundaries are approximate.*

rg STONY RESIDUUM -- *Stony residuum, with accompanying sand and silt. Thickness mostly less than 3 ft. Texture variable depending on parent material, indicated by subscript. Boundaries gradational with cg and fg.*

l/b STONY LOAM OVER BASALT -- *Lithology highly variable; locally abundant clay and silt, probably loessial; stones basaltic, mostly rough scoriae or angular blocks and flakes. Includes alluvium along small washes; numerous basalt mounds and low scarps along some washes and at edges of flows; thickness generally less than 3 ft. Surface smooth; slopes usually less than 5 percent except at sides of washes, bases of volcanic cones (including spatter cones), and edges of flows. Not subject to severe erosion. Boundaries indicated are fairly well defined despite variable lithology; boundaries with alluvium are approximate.*

rs SANDY OR SANDY LOAM RESIDUUM -- *The shallow sandy or sandy silt substrates are distinguished by subscripts (e.g., rs/Kd, sandy residuum over Dakota Sandstone). Thickness commonly 1 ft. Subject to wind erosion where vegetation is sparse; minimal washing. A distinctive unit with adequate boundaries, except in the San Juan Basin and along the Canadian River.*

r/gyp GYPSIFEROUS AND SANDY RESIDUUM ALONG PECOS RIVER VALLEY -- *Parent material Artesia (Pat) and related formations. Rarely over 2 ft thick. Numerous small outcrops of gypsum thinly mantled by loose sand with or without small pebbles. A distinctive unit; boundaries are approximate.*

r/ls RESIDUUM ON LIMESTONE -- *Widespread on east slope of Sacramento Mountains, Chupadera Mesa, and flanks of Zuni Mountains; less extensive on Cretaceous limestone beds south of Raton. Stony and blocky; generally well cemented with calcium carbonate; little subject to erosion. Slopes average steeper than most residuum. Thickness generally less than 2 ft, rarely as much as 5 ft. A distinctive unit; boundaries indicated are adequate.*

CALICHE

ca CALICHE. *Partly indurated zone of calcium carbonate accumulation formed in upper layers of surficial deposits; 2 to 10 ft thick; commonly overlain by windblown sand. Much caliche shown on the map consists of tough, slabby surface layers underlain by calcium carbonate nodules that grade downward to fibers and veinlets. Especially well developed in Basin and Range and Great Plains parts of the state. Thick caliches (locally >20 ft) associated with undissected High Plains surfaces of the Great Plains commonly comprise an upper sequence of several carbonate-cemented zones interlayered with reddish loamy paleosol horizons over a basal caprock zone developed on Ogallala (To) sediments. Forms on various types of parent formations, indicated by subscripts. The extensive caliche along Rio Salado northwest of Socorro is partly a travertine deposit. Where buried by sand, the caliche is identified by subscript ca. A distinctive unit; boundaries are well defined where the caliche forms outcrop and approximate where exposed in deflation hollows. Where thick and well indurated, caliche is quarried for road metal and other aggregate, subject to minimal erosion.*

SPRING DEPOSITS

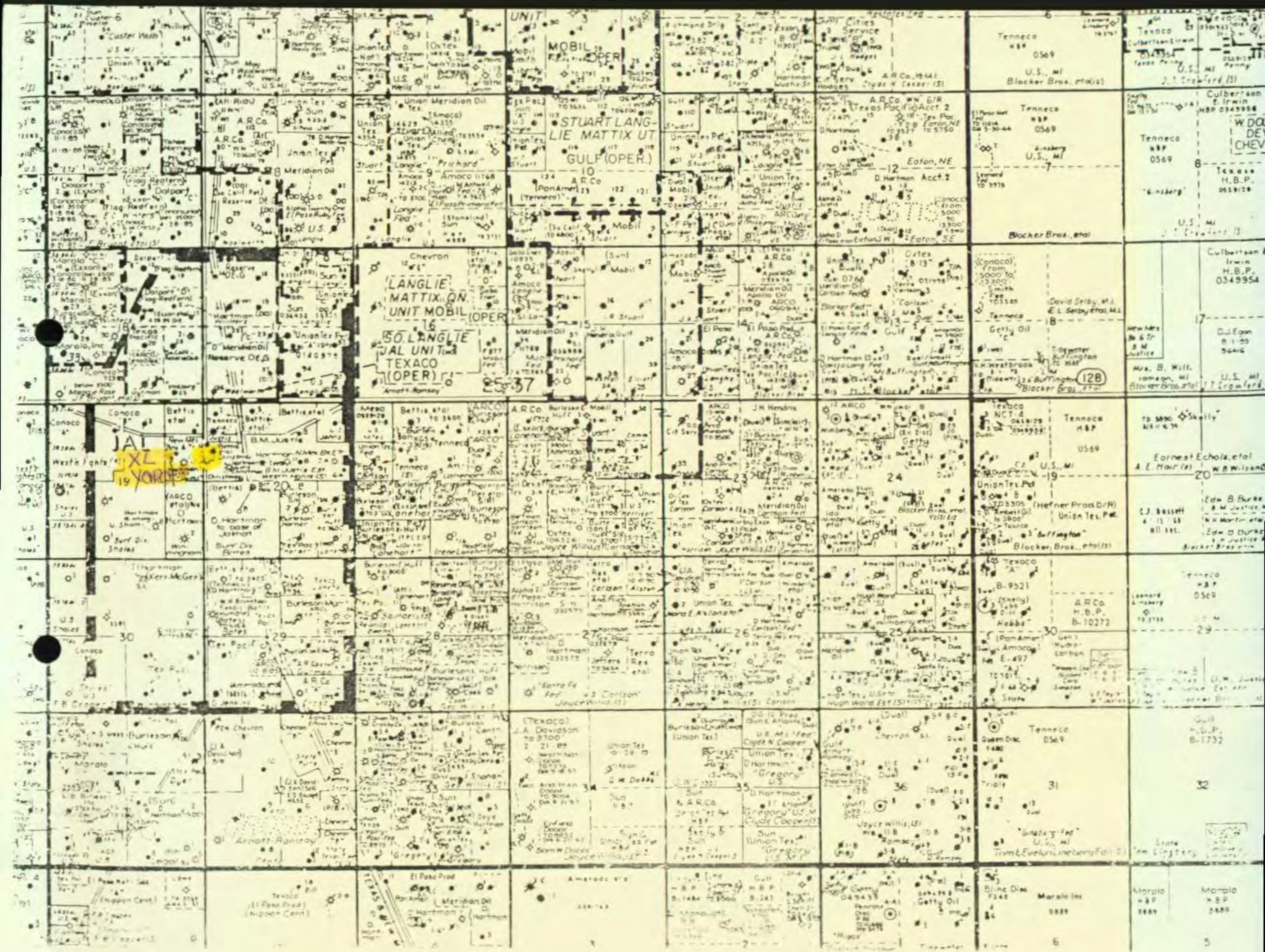
sp TRAVERTINE AND RELATED DEPOSITS -- *Most deposits shown have been formed at springs discharging water hotter than 100°F (34°C). Travertine mounds and benches to 50 ft high. Deposits at east base of Mesa Lucero may not have been created by hot springs.*

CLINKER

cl SLAGGY COAL ASH AND VITRIFIED SHALE AND SANDSTONE MASSES FUSED BY BURNING COAL BEDS -- *Incompletely shown -- coal may ignite spontaneously, by lightning or ground fire. Depending on oxygen availability, the coal may burn tens of feet back into the ground. Common in coal-bearing formations of San Juan Basin and Raton district. Used for road metal.*

KARST DEPRESSION DEPOSITS

ks KARST-RELATED DEPOSITS — *Underground solution of limestone and gypsum produces caverns or smaller subsurface voids, and causes roof-rock collapse, forming closed karst depressions (sinkholes) at the surface, mantled with blocks of the roof rock. Widespread in San Andres Formation (subscript Pes) north of the Sacramento Mountains and on Chupadera Mesa. Sinks commonly 50 ft deep and 500 to 1,000 ft wide. Similar deposits composed of slumped gravel and alluvium along the Pecos River valley are attributed to solution of underlying gypsum or other salts. Slumped beds dip 1 to 5 degrees into the depression; may be overlain by undisturbed gravels. Thickness to 300 ft. Although these are distinctive features, extent and boundaries, largely derived from the 1/250,000 quadrangle maps, are approximate.*



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Tenneco
Blocker Bros., etal
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Earnest Echols, etal
Union Tex. Pet.
Meridian Oil
Arnott-Ramsay
Joyce Willis (S)
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Marolo Inc
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El Paso Prod.
Texaco "A"
Hobbs
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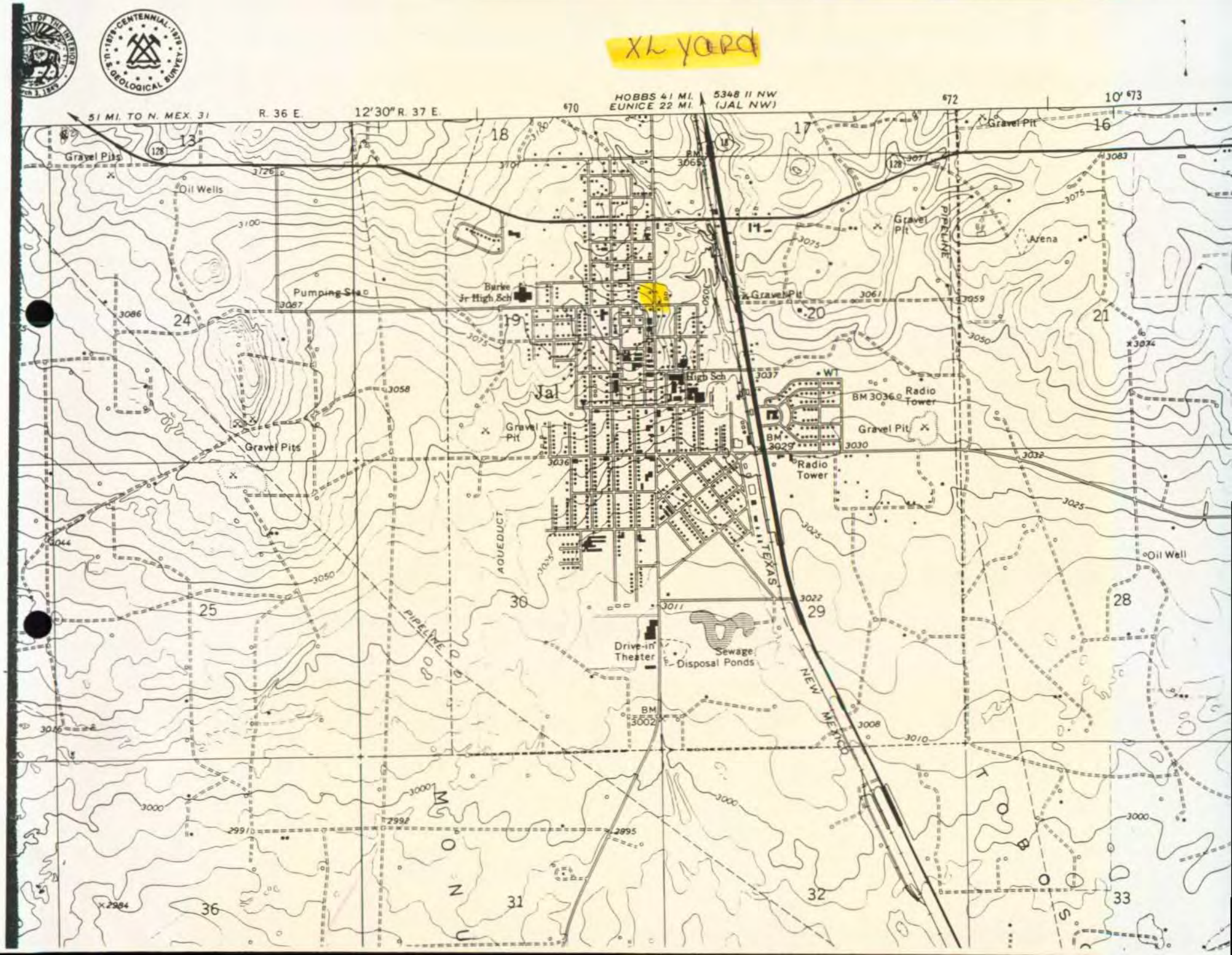
XL YARD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BM 3036
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I, BETSY PERNER being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily news paper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 63261 a copy of which is hereto attached was published in said newspaper once each WEEK for ONE consecutive week(s) and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 1 day of APRIL 1998 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 1 day of APRIL A.D., 1998

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My Commission Expires 3-13-2001

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 application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-297) - XL Transport Company, Christine Brininstool, (505) 295-2010, P.O. Drawer A, 113 North 3rd Street, Jal, New Mexico 88252, has submitted a discharge application for the XL Transport Company facility located in the SW/4 NW/4 of Section 20, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 50 gallons per month of waste oil and solvents are collected day of process waste water is collected in fiberglass storage tanks then transported offsite for disposal. Ground water most likely to be affected in the event of an accidental discharge is at an estimated depth of approximately 40 feet with a total dissolved solids concentration ranging from 700 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 obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) 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 application(s), 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 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.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 25th day of March 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY,
Director

Legal #63261
Pub. April 1, 1998

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 3/3/98,

or cash received on ______________ in the amount of $ 1430.00

from XL Transportation

for Jal GW 297

(Facility Name) (DP No.)

Submitted by: ______________________ Date: ____________

Submitted to ASD by: R Anderson Date: 3/27/98

Received in ASD by: ______________________ Date: ____________

Filing Fee ____ New Facility ____ Renewal ____

Modification ____ Other ______________

(specify)

Organization Code 521.07 Applicable FY 98

To be deposited in the Water Quality Management Fund.

Full Payment ____ or Annual Increment ____

[redacted]

X. L. TRANSPORTATION CO.
DRAWER A
JAL, NM 88252

88-2207/1123

DATE 3-3-98

PAY TO THE ORDER OF Oil Conservation Division $1430.00

CERTIFIED TILL 11-30-98 1430 DOLS 00 CTS DOLLARS

Kermit State Bank
Post Office Drawer K
Kermit, Texas 79745

FOR GW-297

[redacted]

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

March 27, 1998

Lovington Daily Leader
Attention: Advertising Manager
Post Office Box 1717
Lovington, New Mexico 88260

Re: Notice of Publication

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit in duplicate.***
2. ***Statement of cost (also in duplicate).***
3. ***Certified invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than APRIL 3, 1998.

Sincerely,

Sally Martinez

Sally Martinez
Administrative Secretary

Attachment

P 269 262 826

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	Lovington Daily Leader
Street & Number	PO Box 1717
Post Office, State, & ZIP Code	Lovington, NM 88260
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form 3800, April 1995

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

March 27, 1998

The New Mexican
Attention: *Betsy Perner*
202 East Marcy
Santa Fe, New Mexico 87501

Re: Notice of Publication
PO # 98-199-00257

Dear Ms. Perner:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit.***
2. ***Invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than Wednesday, April 1, 1998.

Sincerely,

Sally Martinez

Sally Martinez
Administrative Secretary

Attachment

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 application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) 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 application(s), 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 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.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 25th day of March, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

for LORI WROTENBERY, Director

SEAL

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 25th day of March, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Roger Anderson

SEAL

LORI WROTENBERY, Director

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5950

Jennifer A. Salisbury
CABINET SECRETARY

February 20, 1998

To: Roger Anderson

From: Wayne Price

Re: XL Sump Analysis & XL Brine St. (BW-25) inspection.

Dear Roger:

Please find enclosed the analyticals from the sampling event taken on Jan 30, 1998. Also attached is a sketch showing the different locations. Please note the analyticals with the ID 9801281000 were taken from sample containers that were collected by the City of Jal the morning after the incident. The incident occurred the night of Jan 27, 1998. These samples reflect Toluene at high concentrations down stream of the XL sump. The Up-stream manhole (Montana) was "ND" for Toluene.

For clarification the Montana manhole is up-stream of the XL facility. The Wyoming & Panther is down stream.

After reviewing the data, it appears at this time the source of Toluene was the XL sump.

I recommend that we follow through with XL performing an internal investigation so as we can understand how Toluene waste is generated in the sump. This will help classify if this waste water and or the sludge in the bottom of the sump is exempt/non-exempt and thus a possible "Listed Hazardous Waste". Also we need to know how often and where this waste is being disposed of. This can be part of the Discharge Plan. I also recommend that we have XL supply us the analytical data they collected during our sampling event.

Please note XL normally washes out trucks at their Brine Facility wash out pit (BW-25). I recommend we have XL describe how and what type of waste is discharged into this pit. Please note this sludge according to Chris Brininstool, has been going to Sundance (Parabo) facility.

Please note the NMOCD District I office received a complaint about contaminated soil being disposed of from the Brine St. onto a lot located inside city of Jal, NM. My investigation revealed that J.L.N.M. Construction Co. (P.O. Box 566 Jal, NM 88252) hauled the sludge from the brine pit and dumped it at their facility in Jal, NM. According to the owner Mr. Jimmy Hill he did this as a temporary storing area, then he hauled to Sundance Parabo. He supplied me Parabo tickets. Pictures were taken of the staging area.

I inspected the Brine St. (BW-25) with Chris Brininstool and took pictures. They have installed an additional concrete pad with curb next to the wash-out pit to hold the wet sludge until it is dry enough to haul off. I understand there might be some mixing of sludge and soil to help solidify it. The pad & curd is designed to drain back to the pit. They have also installed a new underground drain line and above ground waste tank downhill from the pit. This new tank is on a 30 mil liner and bermed. Also they have added a KCL mixing station.

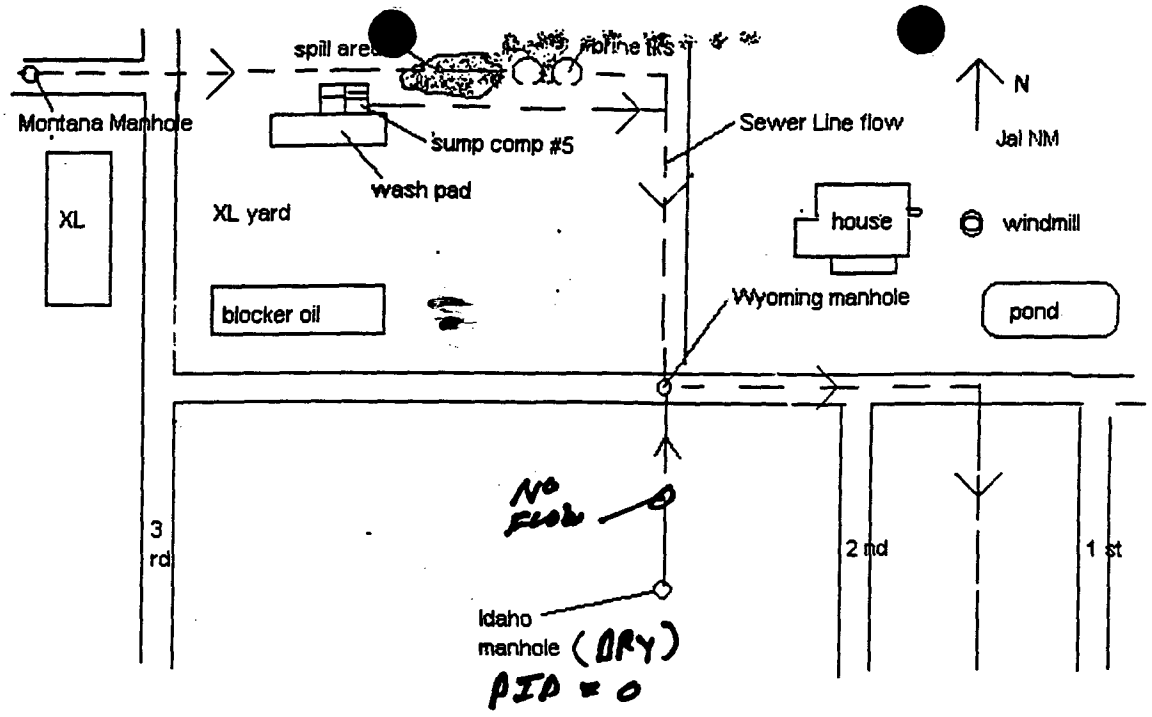
I ask Chris Brininstool if they have modified their discharge plan, she said no.

I recommend that XL\Salado Brine ST (BW-25) be required to modify their discharge plan to reflect the new changes, plus they should list all types of waste, chemicals, etc that are discharged into the wash-out pit. They should determine if this waste is exempt or non-exempt. Is Toluene being discharged into this pit?

I also recommend that J.L.N.M be notified if they discharged any more contaminated soils at their site they will be required to obtain a Discharge Plan.

cc: Chris Williams-District I Supervisor
Jack Ford & Mark Ashley- NMOCD SF

attachments- for XL Transportation. cc of analyticals & sketch.
- for Brine ST BW025 cc of pictures.



FIELD SKETCH

Took pictures 1/30/98
By L. Price - NMOCD
Witness: C Williams

PID READINGS

		PID
XL SUMP COMP #5 @ 12 NOON	HELD ABOVE WATER IN SUMP	691 ppm (BTEX) PAINT THINNER SMELL
	COLLECTED SAMPLE USING 3' PE BAILER - RAN HEADSPACE IN Qt JAR	>2500 ppm (BTEX) CLEAR WATER TDS 1700 MG/L STRONG BENZENE-LIKE ODOR

XL SUMP COMP #5 OUTLET TO CITY SEWER

TDS SUMP MG/L — CITY 400 MG/L

TD	#1	#2	#3	#4	#5
Top	3000	1800	1000	1000	1000
Mid					3900
Bott	13,000	13000	5000	5000	5000

MONTANA MANHOLE 12:20 PM	• HELD ABOVE WATER FLOW	PID	"ND" (BTEX)
	• COLLECTED WATER SAMPLE Qt JAR - HEADSPACE	PID	0-5 PPM SEWAGE SMELL ONLY 0-10% TURB/TDS 750
WYOMING MANHOLE	• HELD ABOVE WATER FLOW	PID	45 PPM (BTEX)
	• COLLECTED WATER SAMPLE Qt JAR - HEADSPACE		161 PPM SAME SMELL AS XL SUMP 0-10% TURB TDS 700 MG/L

American Environmental Network, Inc.

AEN I.D. 801394

February 18, 1998

NMOCD
313 ALISO
HOBBS NM 88241

Project Name XL JAL NM
Project Number WASH SUMP

Attention: WAYNE PRICE

On 1/31/98 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze **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.

EPA method 8270 was analyzed by American Environmental Network (FL) Inc., Pensacola, FL.

All other parameters were analyzed by American Environmental Network (NM) Inc., Albuquerque, NM.

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

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

2709-D Pan American Freeway, NE • Albuquerque, NM 87107 • (505) 344-3777 • Fax (505) 344-4413

American Environmental Network, Inc.

CLIENT	: NMOCD	AEN I.D.	: 801394
PROJECT #	: WASH SUMP	DATE RECEIVED	: 1/31/98
PROJECT NAME	: XL JAL NM	REPORT DATE	: 2/18/98

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	XLSUMP#5 9801301645	AQ	1/30/98
02	WYOMING 9801301720	AQ	1/30/98
03	MONTANA 9801281000	AQ	1/30/98
04	WYOMING 9801281000	AQ	1/30/98
05	PANTHER 9801281000	AQ	1/30/98

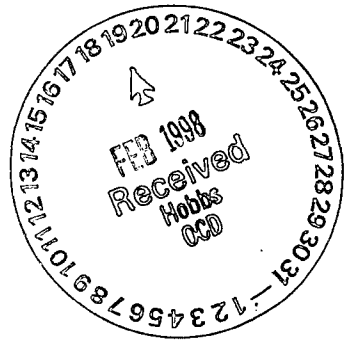
American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-01	XL SUMP #5 9801301645	AQUEOUS	1/30/98	N/A	02/04/98	1000

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1000	ug/L
Chloromethane	1.0	< 1000	ug/L
Vinyl Chloride	1.0	< 1000	ug/L
Bromomethane	1.0	< 1000	ug/L
Chloroethane	1.0	< 1000	ug/L
Trichlorofluoromethane	1.0	< 1000	ug/L
Acetone	10	< 10000	ug/L
Acrolein	5.0	< 5000	ug/L
1,1-Dichloroethene	1.0	< 1000	ug/L
Iodomethane	1.0	< 1000	ug/L
Methylene Chloride	1.0	< 1000	ug/L
Acrylonitrile	5.0	< 5000	ug/L
cis-1,2-Dichloroethene	1.0	< 1000	ug/L
Methyl-t-butyl Ether	1.0	< 1000	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 1000	ug/L
1,1-Dichloroethane	1.0	< 1000	ug/L
trans-1,2-Dichloroethene	1.0	< 1000	ug/L
2-Butanone	10	< 10000	ug/L
Carbon Disulfide	1.0	< 1000	ug/L
Bromochloromethane	1.0	< 1000	ug/L
Chloroform	1.0	< 1000	ug/L
2,2-Dichloropropane	1.0	< 1000	ug/L
1,2-Dichloroethane	1.0	< 1000	ug/L
Vinyl Acetate	1.0	< 1000	ug/L
1,1,1-Trichloroethane	1.0	< 1000	ug/L
1,1-Dichloropropene	1.0	< 1000	ug/L
Carbon Tetrachloride	1.0	< 1000	ug/L
Benzene	1.0	< 1000	ug/L
1,2-Dichloropropane	1.0	< 1000	ug/L
Trichloroethene	1.0	< 1000	ug/L
Bromodichloromethane	1.0	< 1000	ug/L
2-Chloroethyl Vinyl Ether	10	< 10000	ug/L
cis-1,3-Dichloropropene	1.0	< 1000	ug/L
trans-1,3-Dichloropropene	1.0	< 1000	ug/L
1,1,2-Trichloroethane	1.0	< 1000	ug/L
1,3-Dichloropropane	1.0	< 1000	ug/L
Dibromomethane	1.0	< 1000	ug/L
Toluene	1.0	**64000**	**ug/L**



American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-01	XL SUMP #5 9801301645	AQUEOUS	1/30/98	N/A	02/04/98	1000

PARAMETER	DET. LIMIT		UNITS
1,2-Dibromoethane	1.0	< 1000	ug/L
4-Methyl-2-Pentanone	10	< 10000	ug/L
2-Hexanone	10	< 10000	ug/L
Dibromochloromethane	1.0	< 1000	ug/L
Tetrachloroethene	1.0	< 1000	ug/L
Chlorobenzene	1.0	< 1000	ug/L
Ethylbenzene	1.0	< 1000	ug/L
1,1,1,2-Tetrachloroethane	1.0	< 1000	ug/L
m&p Xylenes	1.0	< 1000	ug/L
o-Xylene	1.0	< 1000	ug/L
Styrene	1.0	< 1000	ug/L
Bromoform	1.0	< 1000	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1000	ug/L
1,2,3-Trichloropropane	1.0	< 1000	ug/L
Isopropyl Benzene	1.0	< 1000	ug/L
Bromobenzene	1.0	< 1000	ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 1000	ug/L
n-Propylbenzene	1.0	< 1000	ug/L
2-Chlorotoluene	1.0	< 1000	ug/L
4-Chlorotoluene	1.0	< 1000	ug/L
1,3,5-Trimethylbenzene	1.0	< 1000	ug/L
tert-Butylbenzene	1.0	< 1000	ug/L
1,2,4-Trimethylbenzene	1.0	< 1000	ug/L
sec-Butylbenzene	1.0	< 1000	ug/L
1,3-Dichlorobenzene	1.0	< 1000	ug/L
1,4-Dichlorobenzene	1.0	< 1000	ug/L
p-Isopropyltoluene	1.0	< 1000	ug/L
1,2-Dichlorobenzene	1.0	< 1000	ug/L
n-Butylbenzene	1.0	< 1000	ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 1000	ug/L
1,2,4-Trichlorobenzene	1.0	< 1000	ug/L
Naphthalene	1.0	< 1000	ug/L
Hexachlorobutadiene	1.0	< 1000	ug/L
1,2,3-Trichlorobenzene	1.0	< 1000	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	106 (80 - 120)
Toluene-d8	105 (88 - 110)
Bromofluorobenzene	108 (86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-02	WYOMING 9801301720	AQUEOUS	1/30/98	N/A	02/04/98	20

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 20	ug/L
Chloromethane	1.0	< 20	ug/L
Vinyl Chloride	1.0	< 20	ug/L
Bromomethane	1.0	< 20	ug/L
Chloroethane	1.0	< 20	ug/L
Trichlorofluoromethane	1.0	< 20	ug/L
Acetone	10	< 200	ug/L
Acrolein	5.0	< 100	ug/L
1,1-Dichloroethene	1.0	< 20	ug/L
Iodomethane	1.0	< 20	ug/L
Methylene Chloride	1.0	< 20	ug/L
Acrylonitrile	5.0	< 100	ug/L
cis-1,2-Dichloroethene	1.0	< 20	ug/L
Methyl-t-butyl Ether	1.0	< 20	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	**120**	**ug/L**
1,1-Dichloroethane	1.0	< 20	ug/L
trans-1,2-Dichloroethene	1.0	< 20	ug/L
2-Butanone	10	< 200	ug/L
Carbon Disulfide	1.0	< 20	ug/L
Bromochloromethane	1.0	< 20	ug/L
Chloroform	1.0	< 20	ug/L
2,2-Dichloropropane	1.0	< 20	ug/L
1,2-Dichloroethane	1.0	< 20	ug/L
Vinyl Acetate	1.0	< 20	ug/L
1,1,1-Trichloroethane	1.0	< 20	ug/L
1,1-Dichloropropene	1.0	< 20	ug/L
Carbon Tetrachloride	1.0	< 20	ug/L
Benzene	1.0	< 20	ug/L
1,2-Dichloropropane	1.0	< 20	ug/L
Trichloroethene	1.0	< 20	ug/L
Bromodichloromethane	1.0	< 20	ug/L
2-Chloroethyl Vinyl Ether	10	< 200	ug/L
cis-1,3-Dichloropropene	1.0	< 20	ug/L
trans-1,3-Dichloropropene	1.0	< 20	ug/L
1,1,2-Trichloroethane	1.0	< 20	ug/L
1,3-Dichloropropane	1.0	< 20	ug/L
Dibromomethane	1.0	< 20	ug/L
Toluene	1.0	**1300**	**ug/L**

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-02	WYOMING 9801301720	AQUEOUS	1/30/98	N/A	02/04/98	20

PARAMETER	DET. LIMIT		UNITS
1,2-Dibromoethane	1.0	< 20	ug/L
4-Methyl-2-Pentanone	10	< 200	ug/L
2-Hexanone	10	< 200	ug/L
Dibromochloromethane	1.0	< 20	ug/L
Tetrachloroethene	1.0	< 20	ug/L
Chlorobenzene	1.0	< 20	ug/L
Ethylbenzene	1.0	< 20	ug/L
1,1,1,2-Tetrachloroethane	1.0	< 20	ug/L
m&p Xylenes	1.0	< 20	ug/L
o-Xylene	1.0	< 20	ug/L
Styrene	1.0	< 20	ug/L
Bromoform	1.0	< 20	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 20	ug/L
1,2,3-Trichloropropane	1.0	< 20	ug/L
Isopropyl Benzene	1.0	< 20	ug/L
Bromobenzene	1.0	< 20	ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 20	ug/L
n-Propylbenzene	1.0	< 20	ug/L
2-Chlorotoluene	1.0	< 20	ug/L
4-Chlorotoluene	1.0	< 20	ug/L
1,3,5-Trimethylbenzene	1.0	< 20	ug/L
tert-Butylbenzene	1.0	< 20	ug/L
1,2,4-Trimethylbenzene	1.0	< 20	ug/L
sec-Butylbenzene	1.0	< 20	ug/L
1,3-Dichlorobenzene	1.0	< 20	ug/L
1,4-Dichlorobenzene	1.0	< 20	ug/L
p-Isopropyltoluene	1.0	< 20	ug/L
1,2-Dichlorobenzene	1.0	< 20	ug/L
n-Butylbenzene	1.0	< 20	ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 20	ug/L
1,2,4-Trichlorobenzene	1.0	< 20	ug/L
Naphthalene	1.0	< 20	ug/L
Hexachlorobutadiene	1.0	< 20	ug/L
1,2,3-Trichlorobenzene	1.0	< 20	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	95	(80 - 120)
Toluene-d8	102	(88 - 110)
Bromofluorobenzene	98	(86 - 115)

American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-03	MONTANA 9801281000	AQUEOUS	1/30/98	N/A	02/04/98	50

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 50	ug/L
Chloromethane	1.0	< 50	ug/L
Vinyl Chloride	1.0	< 50	ug/L
Bromomethane	1.0	< 50	ug/L
Chloroethane	1.0	< 50	ug/L
Trichlorofluoromethane	1.0	< 50	ug/L
Acetone	10	**2500**	**ug/L**
Acrolein	5.0	< 250	ug/L
1,1-Dichloroethene	1.0	< 50	ug/L
Iodomethane	1.0	< 50	ug/L
Methylene Chloride	1.0	< 50	ug/L
Acrylonitrile	5.0	< 250	ug/L
cis-1,2-Dichloroethene	1.0	< 50	ug/L
Methyl-t-butyl Ether	1.0	< 50	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 50	ug/L
1,1-Dichloroethane	1.0	< 50	ug/L
trans-1,2-Dichloroethene	1.0	< 50	ug/L
2-Butanone	10	< 500	ug/L
Carbon Disulfide	1.0	< 50	ug/L
Bromochloromethane	1.0	< 50	ug/L
Chloroform	1.0	< 50	ug/L
2,2-Dichloropropane	1.0	< 50	ug/L
1,2-Dichloroethane	1.0	< 50	ug/L
Vinyl Acetate	1.0	< 50	ug/L
1,1,1-Trichloroethane	1.0	< 50	ug/L
1,1-Dichloropropene	1.0	< 50	ug/L
Carbon Tetrachloride	1.0	< 50	ug/L
Benzene	1.0	< 50	ug/L
1,2-Dichloropropane	1.0	< 50	ug/L
Trichloroethene	1.0	< 50	ug/L
Bromodichloromethane	1.0	< 50	ug/L
2-Chloroethyl Vinyl Ether	10	< 500	ug/L
cis-1,3-Dichloropropene	1.0	< 50	ug/L
trans-1,3-Dichloropropene	1.0	< 50	ug/L
1,1,2-Trichloroethane	1.0	< 50	ug/L
1,3-Dichloropropane	1.0	< 50	ug/L
Dibromomethane	1.0	< 50	ug/L
Toluene	1.0	< 50	ug/L

American Environmental Network, Inc.

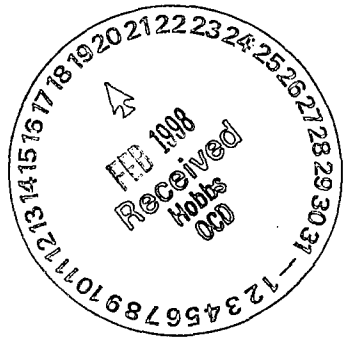
GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-03	MONTANA 9801281000	AQUEOUS	1/30/98	N/A	02/04/98	50

PARAMETER	DET. LIMIT		UNITS
1,2-Dibromoethane	1.0	< 50	ug/L
4-Methyl-2-Pentanone	10	< 500	ug/L
2-Hexanone	10	< 500	ug/L
Dibromochloromethane	1.0	< 50	ug/L
Tetrachloroethene	1.0	< 50	ug/L
Chlorobenzene	1.0	< 50	ug/L
Ethylbenzene	1.0	< 50	ug/L
1,1,1,2-Tetrachloroethane	1.0	< 50	ug/L
m&p Xylenes	1.0	< 50	ug/L
o-Xylene	1.0	< 50	ug/L
Styrene	1.0	< 50	ug/L
Bromoform	1.0	< 50	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 50	ug/L
1,2,3-Trichloropropane	1.0	< 50	ug/L
Isopropyl Benzene	1.0	< 50	ug/L
Bromobenzene	1.0	< 50	ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 50	ug/L
n-Propylbenzene	1.0	< 50	ug/L
2-Chlorotoluene	1.0	< 50	ug/L
4-Chlorotoluene	1.0	< 50	ug/L
1,3,5-Trimethylbenzene	1.0	< 50	ug/L
tert-Butylbenzene	1.0	< 50	ug/L
1,2,4-Trimethylbenzene	1.0	< 50	ug/L
sec-Butylbenzene	1.0	< 50	ug/L
1,3-Dichlorobenzene	1.0	< 50	ug/L
1,4-Dichlorobenzene	1.0	< 50	ug/L
p-Isopropyltoluene	1.0	< 50	ug/L
1,2-Dichlorobenzene	1.0	< 50	ug/L
n-Butylbenzene	1.0	< 50	ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 50	ug/L
1,2,4-Trichlorobenzene	1.0	< 50	ug/L
Naphthalene	1.0	< 50	ug/L
Hexachlorobutadiene	1.0	< 50	ug/L
1,2,3-Trichlorobenzene	1.0	< 50	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	105 (80 - 120)
Toluene-d8	106 (88 - 110)
Bromofluorobenzene	105 (86 - 115)



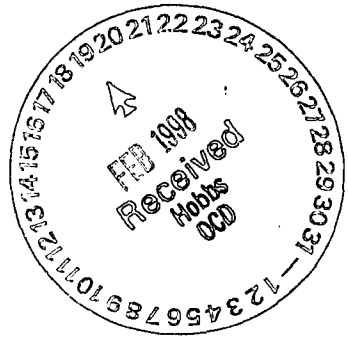
American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-04	WYOMING 9801281000	AQUEOUS	1/30/98	N/A	02/04/98	50

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 50	ug/L
Chloromethane	1.0	< 50	ug/L
Vinyl Chloride	1.0	< 50	ug/L
Bromomethane	1.0	< 50	ug/L
Chloroethane	1.0	< 50	ug/L
Trichlorofluoromethane	1.0	< 50	ug/L
Acetone	10	< 500	ug/L
Acrolein	5.0	< 250	ug/L
1,1-Dichloroethene	1.0	< 50	ug/L
Iodomethane	1.0	< 50	ug/L
Methylene Chloride	1.0	< 50	ug/L
Acrylonitrile	5.0	< 250	ug/L
cis-1,2-Dichloroethene	1.0	< 50	ug/L
Methyl-t-butyl Ether	1.0	< 50	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 50	ug/L
1,1-Dichloroethane	1.0	< 50	ug/L
trans-1,2-Dichloroethene	1.0	< 50	ug/L
2-Butanone	10	< 500	ug/L
Carbon Disulfide	1.0	< 50	ug/L
Bromochloromethane	1.0	< 50	ug/L
Chloroform	1.0	< 50	ug/L
2,2-Dichloropropane	1.0	< 50	ug/L
1,2-Dichloroethane	1.0	< 50	ug/L
Vinyl Acetate	1.0	< 50	ug/L
1,1,1-Trichloroethane	1.0	< 50	ug/L
1,1-Dichloropropene	1.0	< 50	ug/L
Carbon Tetrachloride	1.0	< 50	ug/L
Benzene	1.0	< 50	ug/L
1,2-Dichloropropane	1.0	< 50	ug/L
Trichloroethene	1.0	< 50	ug/L
Bromodichloromethane	1.0	< 50	ug/L
2-Chloroethyl Vinyl Ether	10	< 500	ug/L
cis-1,3-Dichloropropene	1.0	< 50	ug/L
trans-1,3-Dichloropropene	1.0	< 50	ug/L
1,1,2-Trichloroethane	1.0	< 50	ug/L
1,3-Dichloropropane	1.0	< 50	ug/L
Dibromomethane	1.0	< 50	ug/L
Toluene	1.0	**23000 (D1000)**	**ug/L**



American Environmental Network, Inc.

GC/MS RESULTS

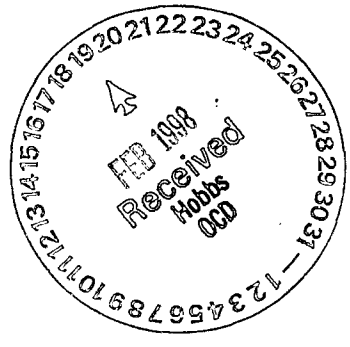
TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-04	WYOMING 9801281000	AQUEOUS	1/30/98	N/A	02/04/98	50

PARAMETER	DET. LIMIT		UNITS
1,2-Dibromoethane	1.0	< 50	ug/L
4-Methyl-2-Pentanone	10	< 500	ug/L
2-Hexanone	10	< 500	ug/L
Dibromochloromethane	1.0	< 50	ug/L
Tetrachloroethene	1.0	< 50	ug/L
Chlorobenzene	1.0	< 50	ug/L
Ethylbenzene	1.0	**60**	**ug/L**
1,1,1,2-Tetrachloroethane	1.0	< 50	ug/L
m&p Xylenes	1.0	**51**	**ug/L**
o-Xylene	1.0	< 50	ug/L
Styrene	1.0	< 50	ug/L
Bromoform	1.0	< 50	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 50	ug/L
1,2,3-Trichloropropane	1.0	< 50	ug/L
Isopropyl Benzene	1.0	< 50	ug/L
Bromobenzene	1.0	< 50	ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 50	ug/L
n-Propylbenzene	1.0	< 50	ug/L
2-Chlorotoluene	1.0	< 50	ug/L
4-Chlorotoluene	1.0	< 50	ug/L
1,3,5-Trimethylbenzene	1.0	< 50	ug/L
tert-Butylbenzene	1.0	< 50	ug/L
1,2,4-Trimethylbenzene	1.0	< 50	ug/L
sec-Butylbenzene	1.0	< 50	ug/L
1,3-Dichlorobenzene	1.0	< 50	ug/L
1,4-Dichlorobenzene	1.0	< 50	ug/L
p-Isopropyltoluene	1.0	< 50	ug/L
1,2-Dichlorobenzene	1.0	< 50	ug/L
n-Butylbenzene	1.0	< 50	ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 50	ug/L
1,2,4-Trichlorobenzene	1.0	< 50	ug/L
Naphthalene	1.0	< 50	ug/L
Hexachlorobutadiene	1.0	< 50	ug/L
1,2,3-Trichlorobenzene	1.0	< 50	ug/L

(D1000) = 1000 X DILUTION, ANALYZED ON 2/4/98

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	89
	(80 - 120)
Toluene-d8	92
	(88 - 110)
Bromofluorobenzene	89
	(86 - 115)



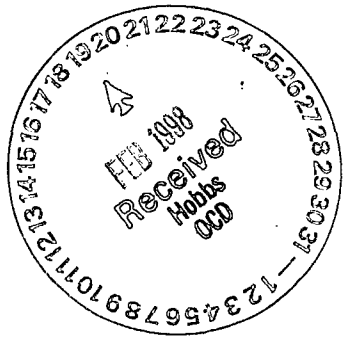
American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-05	PANTHER 9801281000	AQUEOUS	1/30/98	N/A	02/04/98	1000

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1000	ug/L
Chloromethane	1.0	< 1000	ug/L
Vinyl Chloride	1.0	< 1000	ug/L
Bromomethane	1.0	< 1000	ug/L
Chloroethane	1.0	< 1000	ug/L
Trichlorofluoromethane	1.0	< 1000	ug/L
Acetone	10	< 10000	ug/L
Acrolein	5.0	< 5000	ug/L
1,1-Dichloroethene	1.0	< 1000	ug/L
Iodomethane	1.0	< 1000	ug/L
Methylene Chloride	1.0	< 1000	ug/L
Acrylonitrile	5.0	< 5000	ug/L
cis-1,2-Dichloroethene	1.0	< 1000	ug/L
Methyl-t-butyl Ether	1.0	< 1000	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 1000	ug/L
1,1-Dichloroethane	1.0	< 1000	ug/L
trans-1,2-Dichloroethene	1.0	< 1000	ug/L
2-Butanone	10	< 10000	ug/L
Carbon Disulfide	1.0	< 1000	ug/L
Bromochloromethane	1.0	< 1000	ug/L
Chloroform	1.0	< 1000	ug/L
2,2-Dichloropropane	1.0	< 1000	ug/L
1,2-Dichloroethane	1.0	< 1000	ug/L
Vinyl Acetate	1.0	< 1000	ug/L
1,1,1-Trichloroethane	1.0	< 1000	ug/L
1,1-Dichloropropene	1.0	< 1000	ug/L
Carbon Tetrachloride	1.0	< 1000	ug/L
Benzene	1.0	< 1000	ug/L
1,2-Dichloropropane	1.0	< 1000	ug/L
Trichloroethene	1.0	< 1000	ug/L
Bromodichloromethane	1.0	< 1000	ug/L
2-Chloroethyl Vinyl Ether	10	< 10000	ug/L
cis-1,3-Dichloropropene	1.0	< 1000	ug/L
trans-1,3-Dichloropropene	1.0	< 1000	ug/L
1,1,2-Trichloroethane	1.0	< 1000	ug/L
1,3-Dichloropropane	1.0	< 1000	ug/L
Dibromomethane	1.0	< 1000	ug/L
Toluene	1.0	**87000**	**ug/L**



American Environmental Network, Inc.

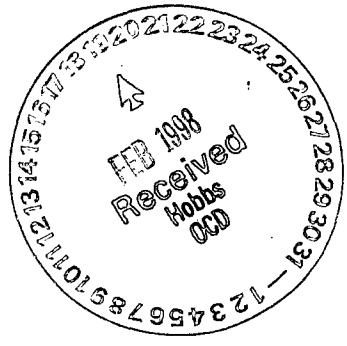
GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP	DATE RECEIVED :	1/31/98
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
801394-05	PANTHER 9801281000	AQUEOUS	1/30/98	N/A	02/04/98	1000

PARAMETER	DET. LIMIT		UNITS
1,2-Dibromoethane	1.0	< 1000	ug/L
4-Methyl-2-Pentanone	10	< 10000	ug/L
2-Hexanone	10	< 10000	ug/L
Dibromochloromethane	1.0	< 1000	ug/L
Tetrachloroethene	1.0	< 1000	ug/L
Chlorobenzene	1.0	< 1000	ug/L
Ethylbenzene	1.0	< 1000	ug/L
1,1,1,2-Tetrachloroethane	1.0	< 1000	ug/L
m&p Xylenes	1.0	< 1000	ug/L
o-Xylene	1.0	< 1000	ug/L
Styrene	1.0	< 1000	ug/L
Bromoform	1.0	< 1000	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1000	ug/L
1,2,3-Trichloropropane	1.0	< 1000	ug/L
Isopropyl Benzene	1.0	< 1000	ug/L
Bromobenzene	1.0	< 1000	ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 1000	ug/L
n-Propylbenzene	1.0	< 1000	ug/L
2-Chlorotoluene	1.0	< 1000	ug/L
4-Chlorotoluene	1.0	< 1000	ug/L
1,3,5-Trimethylbenzene	1.0	< 1000	ug/L
tert-Butylbenzene	1.0	< 1000	ug/L
1,2,4-Trimethylbenzene	1.0	< 1000	ug/L
sec-Butylbenzene	1.0	< 1000	ug/L
1,3-Dichlorobenzene	1.0	< 1000	ug/L
1,4-Dichlorobenzene	1.0	< 1000	ug/L
p-Isopropyltoluene	1.0	< 1000	ug/L
1,2-Dichlorobenzene	1.0	< 1000	ug/L
n-Butylbenzene	1.0	< 1000	ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 1000	ug/L
1,2,4-Trichlorobenzene	1.0	< 1000	ug/L
Naphthalene	1.0	< 1000	ug/L
Hexachlorobutadiene	1.0	< 1000	ug/L
1,2,3-Trichlorobenzene	1.0	< 1000	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	106 (80 - 120)
Toluene-d8	104 (88 - 110)
Bromofluorobenzene	106 (86 - 115)



American Environmental Network, Inc.

GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP		
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	020498	AQUEOUS	N/A	02/04/98	1

PARAMETER	DET. LIMIT		UNITS
Dichlorodifluoromethane	1.0	< 1.0	ug/L
Chloromethane	1.0	< 1.0	ug/L
Vinyl Chloride	1.0	< 1.0	ug/L
Bromomethane	1.0	< 1.0	ug/L
Chloroethane	1.0	< 1.0	ug/L
Trichlorofluoromethane	1.0	< 1.0	ug/L
Acetone	10	< 10	ug/L
Acrolein	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Iodomethane	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
Acrylonitrile	5.0	< 5.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Methyl-t-butyl Ether	1.0	< 1.0	ug/L
1,1,2,1,2,2-Trichlorotrifluoroethane	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
2-Butanone	10	< 10	ug/L
Carbon Disulfide	1.0	< 1.0	ug/L
Bromochloromethane	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
2,2-Dichloropropane	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Vinyl Acetate	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
1,1-Dichloropropene	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
1,3-Dichloropropane	1.0	< 1.0	ug/L
Dibromomethane	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L

American Environmental Network, Inc.

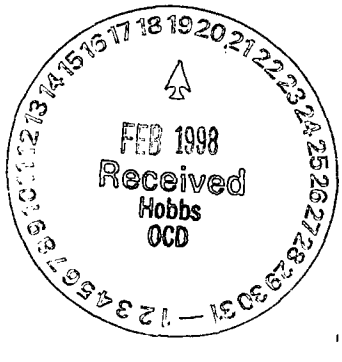
GC/MS RESULTS

TEST	: VOLATILE ORGANICS EPA METHOD 8260		
CLIENT	: NMOCD	AEN I.D. :	801394
PROJECT #	: WASH SUMP		
PROJECT NAME	: XL JAL NM		

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	020498	AQUEOUS	N/A	02/04/98	1

PARAMETER	DET. LIMIT		UNITS
1,2-Dibromoethane	1.0	< 1.0	ug/L
4-Methyl-2-Pentanone	10	< 10	ug/L
2-Hexanone	10	< 10	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
1,1,1,2-Tetrachloroethane	1.0	< 1.0	ug/L
m&p Xylenes	1.0	< 1.0	ug/L
o-Xylene	1.0	< 1.0	ug/L
Styrene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0	< 1.0	ug/L
1,2,3-Trichloropropane	1.0	< 1.0	ug/L
Isopropyl Benzene	1.0	< 1.0	ug/L
Bromobenzene	1.0	< 1.0	ug/L
trans-1,4-Dichloro-2-Butene	1.0	< 1.0	ug/L
n-Propylbenzene	1.0	< 1.0	ug/L
2-Chlorotoluene	1.0	< 1.0	ug/L
4-Chlorotoluene	1.0	< 1.0	ug/L
1,3,5-Trimethylbenzene	1.0	< 1.0	ug/L
tert-Butylbenzene	1.0	< 1.0	ug/L
1,2,4-Trimethylbenzene	1.0	< 1.0	ug/L
sec-Butylbenzene	1.0	< 1.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
p-Isopropyltoluene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
n-Butylbenzene	1.0	< 1.0	ug/L
1,2-Dibromomo-3-chloropropane	1.0	< 1.0	ug/L
1,2,4-Trichlorobenzene	1.0	< 1.0	ug/L
Naphthalene	1.0	< 1.0	ug/L
Hexachlorobutadiene	1.0	< 1.0	ug/L
1,2,3-Trichlorobenzene	1.0	< 1.0	ug/L

SURROGATE % RECOVERY		
1,2-Dichloroethane-d4	98	(80 - 120)
Toluene-d8	96	(88 - 110)
Bromofluorobenzene	98	(86 - 115)



American Environmental Network, Inc.

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\82600203.M (RTE Integrator)
Title : AEN New Mexico GC/MS
Last Update : Tue Feb 03 15:31:09 1998
Response via : Initial Calibration

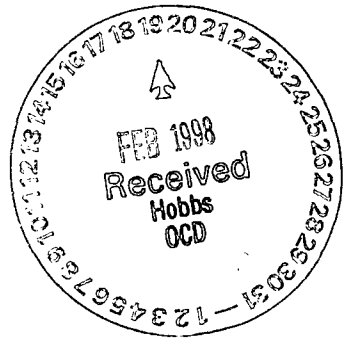
Non-Spiked Sample: 02049811.D

	Spike Sample	Spike Duplicate Sample
File ID :	020498S3.D	020498S4.D
Sample :	802309-01 MS	802309-01 MS
Acq Time:	4 Feb 98 6:31 pm	4 Feb 98 7:07 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	44	44	88	88	0	14	61-145
Benzene	0.0	50	47	48	94	96	2	11	76-127
Trichloroethene	0.0	50	46	47	92	94	2	14	71-120
Toluene	0.0	50	47	48	94	96	2	13	76-125
Chlorobenzene	0.0	50	47	49	94	98	4	13	75-130

- Fails Limit Check

82600203.M Thu Feb 05 08:43:35 1998



American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (850) 474-1001

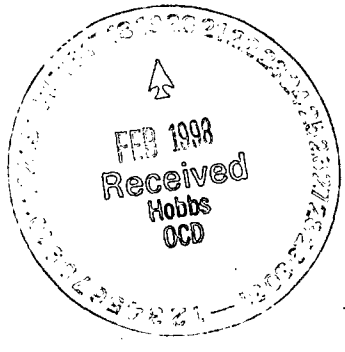
SIGNATURE PAGE

Reviewed by: Linda Lolton
AEN Project Manager

Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
ALBUQUERQUE, NEW MEXICO

Project Name: N.M.-OCD
Project Number: 801394
Project Location: WASH SUMP
Accession Number: 802033

Project Manager: KIMBERLY D. MCNEILL
Sampled By: N/S

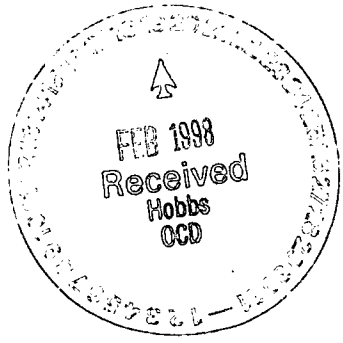


AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: ACID & BASE EXTRACTABLES (8270)

Accession:	802033
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801394
Project Name:	N.M.-OCD
Project Location:	WASH SUMP
Department:	ORGANIC/MS



AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

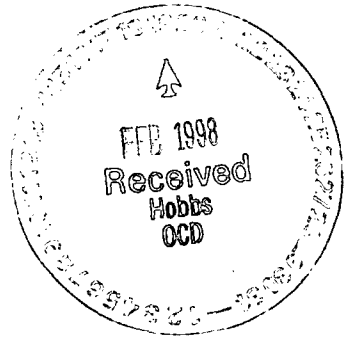
"FINAL REPORT FORMAT - SINGLE"

Accession: 802033
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801394
Project Name: N.M.-OCD
Project Location: WASH SUMP
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix: WATER
QC Level: II

Lab Id: 001 Sample Date/Time: 30-JAN-98 1645
Client Sample Id: 801394-01 Received Date: 03-FEB-98

Batch: ALW011 Extraction Date: 05-FEB-98
Blank: A Dry Weight %: N/A Analysis Date: 12-FEB-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/L	ND	50	
4-CHLORO-3-METHYLPHENOL	UG/L	ND	10	
2-CHLOROPHENOL	UG/L	ND	10	
2,4-DICHLOROPHENOL	UG/L	ND	10	
2,6-DICHLOROPHENOL	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
4,6-DINITRO-2-METHYLPHENOL	UG/L	ND	50	
2,4-DINITROPHENOL	UG/L	ND	50	
2-METHYLPHENOL	UG/L	10	10	
4-METHYLPHENOL	UG/L	ND	10	
2-NITROPHENOL	UG/L	ND	10	
4-NITROPHENOL	UG/L	ND	50	
PENTACHLOROPHENOL	UG/L	ND	50	
PHENOL	UG/L	ND	10	
2,3,4,6-TETRACHLOROPHENOL	UG/L	ND	10	
2,4,5-TRICHLOROPHENOL	UG/L	ND	50	
2,4,6-TRICHLOROPHENOL	UG/L	ND	10	
ACENAPHTHENE	UG/L	ND	10	
ACENAPHTHYLENE	UG/L	ND	10	
ACETOPHENONE	UG/L	ND	10	
4-AMINOBIPHENYL	UG/L	ND	10	
ANILINE	UG/L	ND	10	
ANTHRACENE	UG/L	ND	10	
BENZIDINE	UG/L	ND	10	
BENZO (A) ANTHRACENE	UG/L	ND	10	
BENZO (A) PYRENE	UG/L	ND	10	
BENZO (B) FLUORANTHENE	UG/L	ND	10	
BENZO (G,H,I) PERYLENE	UG/L	ND	10	
BENZO (K) FLUORANTHENE	UG/L	ND	10	
BENZYL ALCOHOL	UG/L	ND	10	
BIS(2-CHLOROETHOXY)METHANE	UG/L	ND	10	
BIS(2-CHLOROETHYL)ETHER	UG/L	ND	10	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L	ND	10	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	ND	10	
4-BROMOPHENYL PHENYL ETHER	UG/L	ND	10	
BUTYLBENZYL PHTHALATE	UG/L	ND	10	
4-CHLOROANILINE	UG/L	ND	10	
1-CHLORONAPHTHALENE	UG/L	ND	10	
2-CHLORONAPHTHALENE	UG/L	ND	10	
4-CHLOROPHENYL PHENYL ETHER	UG/L	ND	10	



"FINAL REPORT FORMAT - SINGLE"

Accession: 802033
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801394
Project Name: N.M.-OCD
Project Location: WASH SUMP
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix: WATER
QC Level: II

Lab Id: 001 Sample Date/Time: 30-JAN-98 1645
Client Sample Id: 801394-01 Received Date: 03-FEB-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/L	ND	10	
DIBENZ(A,J)ACRIDINE	UG/L	ND	10	
DIBENZO (A,H) ANTHRACENE	UG/L	ND	10	
DIBENZOFURAN	UG/L	ND	10	
1,2-DICHLOROBENZENE	UG/L	ND	10	
1,3-DICHLOROBENZENE	UG/L	ND	10	
1,4-DICHLOROBENZENE	UG/L	ND	10	
3,3'-DICHLOROBENZIDINE	UG/L	ND	50	
DIETHYLPHTHALATE	UG/L	ND	10	
P-DIMETHYLAMINOAZOBENZENE	UG/L	ND	10	
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	ND	10	
A-,A-DIMETHYLPHENETHYLAMINE	UG/L	ND	10	
DIMETHYLPHTHALATE	UG/L	ND	10	
DI-N-BUTYLPHTHALATE	UG/L	ND	10	
2,4-DINITROTOLUENE	UG/L	ND	10	
2,6-DINITROTOLUENE	UG/L	ND	10	
DI-N-OCTYLPHTHALATE	UG/L	ND	10	
DIPHENYLAMINE	UG/L	ND	10	
1,2-DIPHENYLHYDRAZINE	UG/L	ND	10	
FLUORANTHENE	UG/L	ND	10	
FLUORENE	UG/L	ND	10	
HEXACHLOROBENZENE	UG/L	ND	10	
HEXACHLOROBUTADIENE	UG/L	ND	10	
HEXACHLOROCYCLOPENTADIENE	UG/L	ND	10	
HEXACHLOROETHANE	UG/L	ND	10	
INDENO (1,2,3-CD) PYRENE	UG/L	ND	10	
ISOPHORONE	UG/L	ND	10	
3-METHYLCHOLANTHRENE	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
1-NAPHTHYLAMINE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-NITROANILINE	UG/L	ND	10	
3-NITROANILINE	UG/L	ND	10	
4-NITROANILINE	UG/L	ND	10	
NITROBENZENE	UG/L	ND	10	
N-NITROSODIMETHYLAMINE	UG/L	ND	10	
N-NITROSODI-N-BUTYLAMINE	UG/L	ND	10	
N-NITROSODIPHENYLAMINE	UG/L	ND	10	
N-NITROSO-DI-N-PROPYLAMINE	UG/L	ND	10	
N-NITROSOPIPERIDINE	UG/L	ND	10	
PENTACHLOROBENZENE	UG/L	ND	10	
PENTACHLORONITROBENZENE (PCNB)	UG/L	ND	10	
PHENACETIN	UG/L	ND	10	
PHENANTHRENE	UG/L	ND	10	

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	802033
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801394
Project Name:	N.M.-OCD
Project Location:	WASH SUMP
Test:	ACID & BASE EXTRACTABLES (8270)
Analysis Method:	8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix:	WATER
QC Level:	II

Lab Id: 001 Sample Date/Time: 30-JAN-98 1645
Client Sample Id: 801394-01 Received Date: 03-FEB-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/L	ND	10	
PRONAMIDE	UG/L	ND	10	
PYRENE	UG/L	ND	10	
1,2,4,5-TETRACHLOROBENZENE	UG/L	ND	10	
1,2,4 TRICHLOROBENZENE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	73	21-100	
PHENOL-D6	%REC/SURR	69	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	77	10-123	
2-FLUOROBIPHENYL	%REC/SURR	84	43-116	
NITROBENZENE-D5	%REC/SURR	77	35-114	
TERPHENYL-D14	%REC/SURR	80	33-124	
ANALYST	INITIALS	RW		

Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	802033
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801394
Project Name:	N.M.-OCD
Project Location:	WASH SUMP
Test:	ACID & BASE EXTRACTABLES (8270)
Analysis Method:	8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix:	WATER
QC Level:	II

Lab Id: 002 Sample Date/Time: 30-JAN-98 1720
Client Sample Id: 801394-02 Received Date: 03-FEB-98

Batch: ALW011 Extraction Date: 05-FEB-98
Blank: A Dry Weight %: N/A Analysis Date: 12-FEB-98

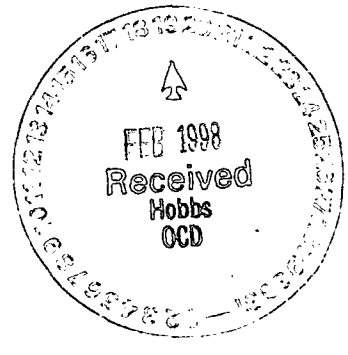
Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/L	ND	50	
4-CHLORO-3-METHYLPHENOL	UG/L	ND	10	
2-CHLOROPHENOL	UG/L	ND	10	
2,4-DICHLOROPHENOL	UG/L	ND	10	
2,6-DICHLOROPHENOL	UG/L	ND	10	
2,4-DIMETHYLPHENOL	UG/L	ND	10	
4,6-DINITRO-2-METHYLPHENOL	UG/L	ND	50	
2,4-DINITROPHENOL	UG/L	ND	50	
2-METHYLPHENOL	UG/L	ND	10	
4-METHYLPHENOL	UG/L	59	10	
2-NITROPHENOL	UG/L	ND	10	
4-NITROPHENOL	UG/L	ND	50	
PENTACHLOROPHENOL	UG/L	ND	50	
PHENOL	UG/L	ND	10	
2,3,4,6-TETRACHLOROPHENOL	UG/L	ND	10	
2,4,5-TRICHLOROPHENOL	UG/L	ND	50	
2,4,6-TRICHLOROPHENOL	UG/L	ND	10	
ACENAPHTHENE	UG/L	ND	10	
ACENAPHTHYLENE	UG/L	ND	10	
ACETOPHENONE	UG/L	ND	10	
4-AMINOBIPHENYL	UG/L	ND	10	
ANILINE	UG/L	ND	10	
ANTHRACENE	UG/L	ND	10	
BENZIDINE	UG/L	ND	10	
BENZO (A) ANTHRACENE	UG/L	ND	10	
BENZO (A) PYRENE	UG/L	ND	10	
BENZO (B) FLUORANTHENE	UG/L	ND	10	
BENZO (G,H,I) PERYLENE	UG/L	ND	10	
BENZO (K) FLUORANTHENE	UG/L	ND	10	
BENZYL ALCOHOL	UG/L	21	10	
BIS(2-CHLOROETHOXY)METHANE	UG/L	ND	10	
BIS(2-CHLOROETHYL)ETHER	UG/L	ND	10	
BIS(2-CHLOROISOPROPYL)ETHER	UG/L	ND	10	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	12	10	
4-BROMOPHENYL PHENYL ETHER	UG/L	ND	10	
BUTYLBENZYL PHTHALATE	UG/L	ND	10	
4-CHLOROANILINE	UG/L	ND	10	
1-CHLORONAPHTHALENE	UG/L	ND	10	
2-CHLORONAPHTHALENE	UG/L	ND	10	
4-CHLOROPHENYL PHENYL ETHER	UG/L	ND	10	

"FINAL REPORT FORMAT - SINGLE"

Accession: 802033
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801394
Project Name: N.M.-OCD
Project Location: WASH SUMP
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix: WATER
QC Level: II

Lab Id: 002 Sample Date/Time: 30-JAN-98 1720
Client Sample Id: 801394-02 Received Date: 03-FEB-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/L	ND	10	
DIBENZ(A,J)ACRIDINE	UG/L	ND	10	
DIBENZO (A,H) ANTHRACENE	UG/L	ND	10	
DIBENZOFURAN	UG/L	ND	10	
1,2-DICHLOROBENZENE	UG/L	ND	10	
1,3-DICHLOROBENZENE	UG/L	ND	10	
1,4-DICHLOROBENZENE	UG/L	ND	10	
3,3'-DICHLOROBENZIDINE	UG/L	ND	50	
DIETHYLPHTHALATE	UG/L	ND	10	
P-DIMETHYLAMINOAZOBENZENE	UG/L	ND	10	
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/L	ND	10	
A-,A-DIMETHYLPHENETHYLAMINE	UG/L	ND	10	
DIMETHYLPHTHALATE	UG/L	ND	10	
DI-N-BUTYLPHTHALATE	UG/L	ND	10	
2,4-DINITROTOLUENE	UG/L	ND	10	
2,6-DINITROTOLUENE	UG/L	ND	10	
DI-N-OCTYLPHTHALATE	UG/L	ND	10	
DIPHENYLAMINE	UG/L	ND	10	
1,2-DIPHENYLHYDRAZINE	UG/L	ND	10	
FLUORANTHENE	UG/L	ND	10	
FLUORENE	UG/L	ND	10	
HEXACHLOROBENZENE	UG/L	ND	10	
HEXACHLOROBUTADIENE	UG/L	ND	10	
HEXACHLOROCYCLOPENTADIENE	UG/L	ND	10	
HEXACHLOROETHANE	UG/L	ND	10	
INDENO (1,2,3-CD) PYRENE	UG/L	ND	10	
ISOPHORONE	UG/L	ND	10	
3-METHYLCHOLANTHRENE	UG/L	ND	10	
2-METHYLNAPHTHALENE	UG/L	ND	10	
NAPHTHALENE	UG/L	ND	10	
1-NAPHTHYLAMINE	UG/L	ND	10	
2-NAPHTHYLAMINE	UG/L	ND	10	
2-NITROANILINE	UG/L	ND	10	
3-NITROANILINE	UG/L	ND	10	
4-NITROANILINE	UG/L	ND	10	
NITROBENZENE	UG/L	ND	10	
N-NITROSODIMETHYLAMINE	UG/L	ND	10	
N-NITROSODI-N-BUTYLAMINE	UG/L	ND	10	
N-NITROSODIPHENYLAMINE	UG/L	ND	10	
N-NITROSO-DI-N-PROPYLAMINE	UG/L	ND	10	
N-NITROSOPIPERIDINE	UG/L	ND	10	
PENTACHLOROBENZENE	UG/L	ND	10	
PENTACHLORONITROBENZENE (PCNB)	UG/L	ND	10	
PHENACETIN	UG/L	ND	10	
PHENANTHRENE	UG/L	ND	10	



AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession:	802033
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801394
Project Name:	N.M.-OCD
Project Location:	WASH SUMP
Test:	ACID & BASE EXTRACTABLES (8270)
Analysis Method:	8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method:	3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Matrix:	WATER
QC Level:	II

Lab Id: 002 Sample Date/Time: 30-JAN-98 1720
Client Sample Id: 801394-02 Received Date: 03-FEB-98

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/L	ND	10	
PRONAMIDE	UG/L	ND	10	
PYRENE	UG/L	ND	10	
1,2,4,5-TETRACHLOROBENZENE	UG/L	ND	10	
1,2,4 TRICHLOROBENZENE	UG/L	ND	10	
2-FLUOROPHENOL	%REC/SURR	76	21-100	
PHENOL-D6	%REC/SURR	35	10-100	
2,4,6-TRIBROMOPHENOL	%REC/SURR	73	10-123	
2-FLUOROBIPHENYL	%REC/SURR	76	43-116	
NITROBENZENE-D5	%REC/SURR	75	35-114	
TERPHENYL-D14	%REC/SURR	82	33-124	
ANALYST	INITIALS	RW		

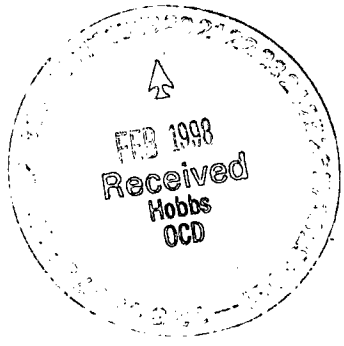
Comments:

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 802033
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 801394
Project Name: N.M.-OCD
Project Location: WASH SUMP
Test: ACID & BASE EXTRACTABLES (8270)

Client Sample Id:	Parameter:	Unit:	Result:
801394-01	2-METHYLPHENOL	UG/L	10
801394-02	4-METHYLPHENOL	UG/L	59
	BENZYL ALCOHOL	UG/L	21
	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	12



AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Rd Pensacola, FL 32514 (850) 474-1001

Data Qualifiers for Final Report

AEN-Pensacola Inorganic/Organic

@	Adjusted reporting limit due to sample matrix (dilution prior to digestion and/or analysis)
+	Elevated reporting limit due to dilution into calibration range
*	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)
#	Elevated reporting limit due to insufficient sample size
D	Diluted out
J5	The reported value is quantitated as a TIC; therefore, it is estimated

ND = Not Detected N/S = Not Submitted N/A = Not Applicable

Florida Projects Inorganic/Organic

Y1	Improper preservation, no preservative present in sample upon receipt
Y2	Improper preservation, incorrect preservative present in sample upon receipt
Y3	Improper preservation, sample temperature exceeded EPA temperature limits of 2-6°C upon receipt
Y (FL description)	The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
Q	Sample held beyond the accepted holding time
I	The reported value is < Laboratory RL and > laboratory MDL
U1	The reported value is ≤ Laboratory MDL (value for sample result is reported as the MDL)
U (FL description)	Indicates the compound was analyzed for but not detected.
T	The reported value is < Laboratory MDL (value shall not be used for statistical analysis)
V	The analyte was detected in both the sample and the associated method blank.
J1	Surrogate recovery limits have been exceeded
J2	The sample matrix interfered with the ability to make any accurate determinations
J3	The reported value failed to meet the established quality control criteria for either precision or accuracy
J (FL description)	Estimated value; not accurate.

AFCEE Projects (under QAPP) and **All Other (AEN-PN) Projects/Sites for Inorganic/Organic Parameters**

J4	(For positive results) Temperature limits exceeded (≤2°C or ≥ 6°C)
J (AFCEE description)	The analyte was positively identified, the quantitation is an estimation
R1	(For nondetects) Temperature limits exceeded (≤2°C or ≥ 6°C)
R2	Improper preservation, no preservative present in sample upon receipt
R3	Improper preservation, incorrect preservative present in sample upon receipt
R4	Holding time exceeded
R5	Collection requirements not met, improper container used for sample
R (AFCEE description)	The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
F	< RL and > laboratory MDL
F (AFCEE description)	The analyte was positively identified but the associated numerical value is below the AFCEE or lab RL
U2	≤ Laboratory MDL (value for result will be the MDL, never below the MDL)
U (AFCEE description)	The analyte was analyzed for but not detected. The associated numerical value is at or below the MDL
B (AFCEE description)	The analyte was found in the associated blank, as well as in the sample

ICR Projects Inorganic/Organic

A	Acceptable
R6	Rejected

Examples: ICR Flags

R6 = Laboratory extracted the sample but the refrigerator malfunctioned so the extract became warm and client was notified

R6 = Sample arrived in laboratory in good condition; however, the laboratory did not analyze it within EPA's established holding time limit.

CLP and CLP-like Projects

Refer to referenced CLP Statement of Work (SOW) for explanation of data qualifiers

IDL = Laboratory Instrument Detection Limit
MDL = Laboratory Method Detection Limit
RL = Reporting Limit (AFCEE RLs are listed in the AFCEE QAPP)
CLP CRDL = CLP Contract Required Detection Limit (these limits are listed in the EPA CLP Statement of Work or SOW)
CLP CRQL = CLP Contract Required Quantitation Limit (these limits are listed in the EPA CLP Statement of Work or SOW)

Any time a sample arrives at the laboratory improperly preserved (at improper pH or temperature) or after holding time has expired or prepared or analyzed after holding time, client must be notified in writing (i.e. case narrative).

AEN-Pensacola uses the most current promulgated methods contained in the reference manuals.

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: ACID & BASE EXTRACTABLES (8270)

Accession:	802033
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	801394
Project Name:	N.M.-OCD
Project Location:	WASH SUMP
Department:	ORGANIC/MS

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 12-Feb-98

"QC Report"

Title: Water Blank
Batch: ALW011
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

Blank Id: A Date Analyzed: 11-FEB-98 Date Extracted: 05-FEB-98

Parameters:	Units:	Results:	Reporting Limits:
P-CHLORO-M-CRESOL	UG/KG	ND	10
2-CHLOROPHENOL	UG/KG	ND	10
O-CRESOL	UG/KG	ND	10
M,P CRESOL	UG/KG	ND	10
2,4-DICHLOROPHENOL	UG/KG	ND	10
2,6-DICHLOROPHENOL	UG/KG	ND	10
2,4-DIMETHYLPHENOL	UG/KG	ND	10
4,6-DINITRO-O-CRESOL	UG/KG	ND	50
2,4-DINITROPHENOL	UG/KG	ND	10
2-NITROPHENOL	UG/KG	ND	10
4-NITROPHENOL	UG/KG	ND	50
PENTACHLOROPHENOL	UG/KG	ND	50
PHENOL	UG/KG	ND	10
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	10
2,4,5-TRICHLOROPHENOL	UG/KG	ND	50
2,4,6-TRICHLOROPHENOL	UG/KG	ND	10
ACENAPHTHENE	UG/KG	ND	10
ACENAPHTHYLENE	UG/KG	ND	10
ACETOPHENONE	UG/KG	ND	10
2-ACETYLAMINOFLUORENE	UG/KG	ND	10
4-AMINOBIPHENYL	UG/KG	ND	10
ANILINE	UG/KG	ND	10
ANTHRACENE	UG/KG	ND	10
ARAMITE	UG/KG	ND	10
BENZO (A) ANTHRACENE	UG/KG	ND	10
BENZO (A) PYRENE	UG/KG	ND	10
BENZO (B) FLUORANTHENE	UG/KG	ND	10
BENZO (G,H,I) PERYLENE	UG/KG	ND	10
BENZO (K) FLUORANTHENE	UG/KG	ND	10
BENZYL ALCOHOL	UG/KG	ND	10
BIS(2-CHLORO-1-METHYLETHYL)ETHER	UG/KG	ND	10
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	10
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	10
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	ND	10
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	10
BUTYLBENZYL PHTHALATE	UG/KG	ND	10
P-CHLOROANILINE	UG/KG	ND	10
CHLOROBENZILATE	UG/KG	ND	10
2-CHLORONAPHTHALENE	UG/KG	ND	10
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	10
CHRYSENE	UG/KG	ND	10
DIALLATE	UG/KG	ND	10
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	10
DIBENZOFURAN	UG/KG	ND	10
1,2-DICHLOROBENZENE	UG/KG	ND	10
1,3-DICHLOROBENZENE	UG/KG	ND	10

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 12-Feb-98

"QC Report"

Title: Water Blank
Batch: ALW011
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

Parameters:	Units:	Results:	Reporting Limits:
1,4-DICHLOROBENZENE	UG/KG	ND	10
3,3'-DICHLOROBENZIDINE	UG/KG	ND	50
DIETHYLPHTHALATE	UG/KG	ND	10
DIMETHOATE	UG/KG	ND	10
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	10
3,3'-DIMETHYLBENZIDINE	UG/KG	ND	10
A,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	10
DIMETHYLPHTHALATE	UG/KG	ND	10
DI-N-BUTYLPHTHALATE	UG/KG	ND	10
M-DINITROBENZENE	UG/KG	ND	10
2,4-DINITROTOLUENE	UG/KG	ND	10
2,6-DINITROTOLUENE	UG/KG	ND	10
DI-N-OCTYLPHTHALATE	UG/KG	ND	10
DIPHENYLAMINE	UG/KG	ND	10
ETHYL METHANESULFONATE	UG/KG	ND	10
FAMPHUR	UG/KG	ND	10
FLUORANTHENE	UG/KG	ND	10
FLUORENE	UG/KG	ND	10
HEXACHLOROBENZENE	UG/KG	ND	10
HEXACHLOROBUTADIENE	UG/KG	ND	10
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	10
HEXACHLOROETHANE	UG/KG	ND	10
HEXACHLOROPHENE	UG/KG	ND	10
HEXACHLOROPROPENE	UG/KG	ND	10
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	10
ISODRIN	UG/KG	ND	10
ISOPHORONE	UG/KG	ND	10
ISOSAFROLE	UG/KG	ND	10
KEPONE	UG/KG	ND	10
METHAPYRILENE	UG/KG	ND	10
3-METHYLCHOLANTHRENE	UG/KG	ND	10
METHYL METHANESULFONATE	UG/KG	ND	10
1-METHYLNAPHTHALENE	UG/KG	ND	10
2-METHYLNAPHTHALENE	UG/KG	ND	10
NAPHTHALENE	UG/KG	ND	10
1,4-NAPHTHOQUINONE	UG/KG	ND	10
1-NAPHTHYLAMINE	UG/KG	ND	10
2-NAPHTHYLAMINE	UG/KG	ND	10
2-NITROANILINE	UG/KG	ND	50
3-NITROANILINE	UG/KG	ND	50
4-NITROANILINE	UG/KG	ND	50
NITROBENZENE	UG/KG	ND	10
5-NITRO-O-TOLUIDINE	UG/KG	ND	10
4-NITROQUINOLINE-1-OXIDE	UG/KG	ND	10
N-NITROSODIETHYLAMINE	UG/KG	ND	10
N-NITROSODIMETHYLAMINE	UG/KG	ND	10

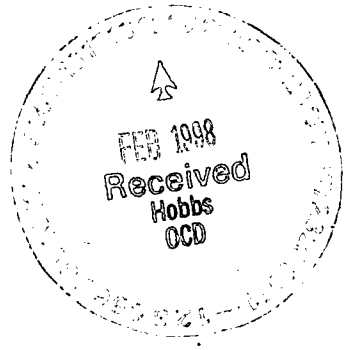
AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Blank
Batch: ALW011
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

Parameters:	Units:	Results:	Reporting Limits:
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	10
N-NITROSODIPHENYLAMINE	UG/KG	ND	10
N-NITROSOMETHYLETHYLAMINE	UG/KG	ND	10
N-NITROSOMORPHOLINE	UG/KG	ND	10
N-NITROSOPIPERIDINE	UG/KG	ND	10
N-NITROSOPYRROLIDINE	UG/KG	ND	10
PARATHION	UG/KG	ND	10
PENTACHLOROBENZENE	UG/KG	ND	10
PENTACHLOROETHANE	UG/KG	ND	10
PENTACHLORONITROBENZENE	UG/KG	ND	10
PHENACETIN	UG/KG	ND	10
PHENANTHRENE	UG/KG	ND	10
2-PICOLINE	UG/KG	ND	10
P-PHENYLENEDIAMINE	UG/KG	ND	10
PRONAMIDE	UG/KG	ND	10
PYRENE	UG/KG	ND	10
PYRIDINE	UG/KG	ND	10
SAFROLE	UG/KG	ND	10
SULFOTEPP	UG/KG	ND	10
1,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	10
THIONAZIN	UG/KG	ND	10
O-TOLUIDINE	UG/KG	ND	10
1,2,4 TRICHLOROBENZENE	UG/KG	ND	10
SYM-TRINITROBENZENE	UG/KG	ND	10
O,O,O-TRIETHYL PHOSPHOROTHIATE	UG/KG	ND	10
BENZIDINE	UG/KG	ND	10
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	10
2-(SEC BUTYL)4,6-DINITRO-PHENOL(DINOSEB)	UG/KG	ND	10
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	10
6-METHYL CHRYSENE	UG/KG	ND	20
INDENE	UG/KG	ND	20
QUINOLINE	UG/KG	ND	50
BENZENETHIOL	UG/KG	ND	20
PARATOLIUDINE	UG/KG	ND	50
TOLUENE DIISOCYANATE	UG/KG	ND	50
TOLUENE DIAMINE	UG/KG	ND	50
MONONITROTOLUENE	UG/KG	ND	50
DIETHYLENE GLYCOL MONOBUTYL ETHER	UG/KG	ND	10
2-FLUOROPHENOL	%REC/SURR	54	25-121
PHENOL-D6	%REC/SURR	51	24-113
2,4,6-TRIBROMOPHENOL	%REC/SURR	63	19-122
2-FLUOROBIPHENYL	%REC/SURR	63	30-115
NITROBENZENE-D5	%REC/SURR	57	23-120
TERPHENYL-D14	%REC/SURR	81	18-137
ANALYST	INITIALS	RW	

Comments:



"QC Report"

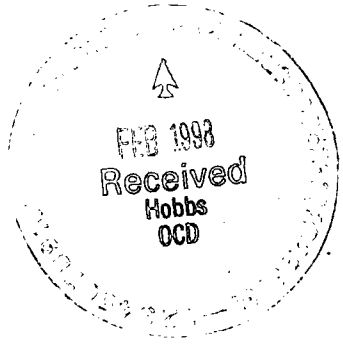
Title: Water LCS
Batch: ALW011
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

RS Date Analyzed: 12-FEB-98 RS Date Extracted: 05-FEB-98

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	Rec Lmts
PHENOL	150	<10	120	80	5-112
2-CHLOROPHENOL	150	<10	120	80	40-120
1,4-DICHLOROBENZENE	100	<10	64	64	32-119
N-NITRO-DI-N-PROPYLAMINE	100	<10	66	66	26-128
1,2,4 TRICHLOROBENZENE	100	<10	68	68	44-142
4-CHLORO-3-METHYLPHENOL	150	<10	126	84	30-128
ACENAPHTHENE	100	<10	84	84	47-145
4-NITROPHENOL	150	<50	130	87	1-132
2,4-DINITROTOLUENE	100	<10	84	84	39-138
PENTACHLOROPHENOL	150	<50	146	97	15-157
PYRENE	100	<10	58	58	52-115
Surrogates:					
NITROBENZENE-D5				58	35-114
2-FLUOROBIPHENYL				67	43-116
TERPHENYL-D14				68	33-124
PHENOL-D6				70	10-100
2-FLUOROPHENOL				71	21-100
2,4,6-TRIBROMOPHENOL				81	10-123

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.



AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Water Matrix Spike/Matrix Spike Duplicate
Batch: ALW011
Analysis Method: 8270/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.
Extraction Method: 3520/Test Methods for Evaluating Solid and Haz Waste, SW-846, 3rd Ed.

Dry Weight %: N/A
Sample Spiked: 802032-7

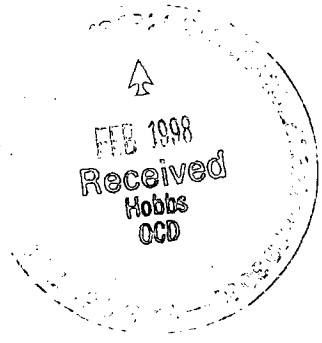
MS Date Analyzed: 12-FEB-98
MSD Date Analyzed: 12-FEB-98

MS Date Extracted: 05-FEB-98
MSD Date Extracted: 05-FEB-98

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
PHENOL	300	<10	220	73	208	69	6	38	5-112
2-CHLOROPHENOL	300	<10	224	75	216	72	4	25	38-120
1,4-DICHLOROBENZENE	200	<10	164	82	164	82	0	27	39-112
N-NITRO-DI-N-PROPYLAMINE	200	<10	164	82	160	80	2	30	32-125
1,2,4 TRICHLOROBENZENE	200	<10	180	90	172	86	5	30	44-118
4-CHLORO-3-METHYLPHENOL	300	<10	220	73	196	65	12	23	42-131
ACENAPHTHENE	200	<10	184	92	184	92	0	21	47-131
4-NITROPHENOL	300	<50	288	96	284	95	1	36	1-116
2,4-DINITROTOLUENE	200	<10	192	96	188	94	2	22	39-138
PENTACHLOROPHENOL	300	<50	176	59	180	60	2	36	14-164
PYRENE	200	<10	140	70	132	66	6	21	52-115
Surrogates:									
NITROBENZENE-D5				72		70			35-114
2-FLUOROBIPHENYL				76		78			43-116
TERPHENYL-D14				77		73			33-124
PHENOL-D6				58		58			10-100
2-FLUOROPHENOL				60		56			21-100
2,4,6-TRIBROMOPHENOL				52		49			10-123

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/L = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.



Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
MG/M3 = MILLIGRAMS PER CUBIC METER.
NG = NANOGRAMS.
UG = MICROGRAMS.
PPBV = PARTS PER BILLION/VOLUME.
< = LESS THAN.
ND = NOT DETECTED ABOVE REPORT LIMIT.
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

DUE TO THE NATURE OF THE SAMPLE MATRIX, MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS CANNOT BE PERFORMED FOR AIR ANALYSIS.

CLP SOW 1991, USEPA CONTRACT LABORATORY PROGRAM, STATEMENT OF WORK FOR ORGANICS ANALYSIS, DOCUMENT NUMBER OLM01.8, AUGUST 1991.

AEN-PN USES THE MOST CURRENT PROMULGATED METHODS CONTAINED IN THE REFERENCE MANUALS.

LP = LEVERNE PETERSON	RW = RITA WINGO
LD = LARRY DILMORE	LL = LANCE LARSON
DWB = DAVID BOWERS	HB = HEATHER E. BLAIR

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 802033 Date Received: 2/03/98

1.	Was there a Chain of Custody?	(Yes)	No♣		8.	Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+	Yes	No♣ (N/A)
2.	Was Chain of Custody properly filled out and relinquished?	(Yes)	No♣		9.	Is there sufficient volume for analysis requested?	(Yes)	No♣
3.	Were samples received cold? (Criteria: 2° - 6°C: AEN-SOP 1055)	(Yes)	No♣	N/A	10.	Were samples received within Holding Time? (REFER TO AEN-SOP 1040)	(Yes)	No♣
4.	Were all samples properly labeled and identified?	(Yes)	No♣		11.	Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section.	Yes♣	No (N/A)
5.	Did samples require splitting? Req By: PM Client Other♦	Yes♣	(No)		12.	If sent, were matrix spike bottles returned?	Yes	No♣ (N/A)
6.	Were samples received in proper containers for analysis requested?	(Yes)	No♣		13.	Was Project Manager notified of problems? (initials:_____)	Yes	(No♣) N/A
7.	Were all sample containers received intact?	(Yes)	No♣					

Airbill Number(s): 348 3316 103 Shipped By: FEDEX

Cooler Number(s): Theirs Shipping Charges: N/A

Cooler Weight(s): 28# Cooler Temp(s) (°C): CCK3 2°C

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

FEB 1998 Received Hobbs OCD

(USE BACK OF PSIFFOR ADDITIONAL NOTES AND COMMENTS) ☞

Inspected By: WS Date: 2/03/98 Logged By: L. Kitt Date: 03-Feb-98 LK 2/3/98

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

♦ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

American Environmental Network
Albuquerque, New Mexico

Interlab Chain of Custody

DATE: 2-2-98 PAGE: 1 OF 1

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

802033

CLIENT PROJECT MANAGER:

Kim McNeill

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
80394 ~~-01~~	1-30-98	445	AQ	
" -02	"	520	AQ	

Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)			TOX	TOC	Gen Chemistry			Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)			TO-14	Gross Alpha/Beta				NUMBER OF CONTAINERS
																X												
																X												

FEB 1998 Received Hobbs OCD

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NUMBER:	80394	TOTAL NUMBER OF CONTAINERS	
PROJECT NAME:	W N.M. - OCD	CHAIN OF CUSTODY SEALS	
QC LEVEL:	(STD) IV	INTACT?	
QC REQUIRED:	MS MSD BLANK	RECEIVED GOOD COND./COLD	
TAT:	(STANDARD) RUSH!	LAB NUMBER	

DUE DATE: 2-15-98
RUSH SURCHARGE: _____
CLIENT DISCOUNT: _____
SPECIAL CERTIFICATION REQUIRED: ☐ YES ☐ NO

SAMPLES SENT TO:	
SAN DIEGO	
N.C.	
RENTON	
PENSACOLA	X
PORTLAND	
PHOENIX	
ILL	

RELINQUISHED BY: 1.
Signature: Time: 1700
Printed Name: Brian Price Date: 2-2-98
Albuquerque NM

RECEIVED BY: 1.
Signature: Linda Kitt Time: 0819
Printed Name: Linda Kitt Date: 2/3/98
Company: AEN/71

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: Time:
Printed Name: Date:
Company:

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 1/30/98 PAGE: 1 OF 1

AEN LAB NO: 801301

PROJECT MANAGER: WAYNE PRICE

COMPANY: NMOCD
ADDRESS: P.O. 1980
HOBBS N.M 88241
PHONE: 505-393-6161
FAX: 505-393-0720

BILL TO: S.A.R.
COMPANY:
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
XL SUMP #5 980130 1645	1/30/98	445 PM	WATER	01
" " "	1/30/98	445 PM	"	01
WYOMING 980130 1720	1/30/98	520 PM	"	02
" " "	"	"	"	02
~~DUPLICATE~~				
MONTANA 980128 1000	1/30/98	548 PM	WATER	03
WYOMING 980128 1000	1/30/98	550 PM	"	04
PANTHER 980128 1000	1/30/98	555 PM	"	05

Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (601/8010)	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:
											X									
														X						
											X									
														X						
											X									
											X									
											X									

Received 1998 Hobbs OCD

PROJECT INFORMATION

PROJ. NO.: WASH SUMP
PROJ. NAME: XL JAL NM
P.O. NO.:
SHIPPED VIA:

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED: ☒ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐ SAMPLES ON ICE!
XL #5 TAKEN USING CLEAN PE BAILER 0-3'
980130 1720 TAKEN USING CLEAN 0L JAR AS DIPPER
WITNESS: FRED SEIFTS - CITY JAL

RELINQUISHED BY: 1

Signature: Time: 8:00 AM
Printed Name: WAYNE PRICE Date: 1/30/98
Company: NMOCD

RELINQUISHED BY: 2

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY:

Signature: Time:
Printed Name: Date:
Company:

PLEASE FILL THIS FORM IN COMPLETELY.

American Environmental Network (NM), Inc.
Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 1/30/98 PAGE: 1 OF 1

AEN LAB I.D. 801394

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER:	WAYNE PRICE
COMPANY:	NMOCD
ADDRESS:	P.O. 1980
	HOBBS N.M 88241
PHONE:	505-393-6161
FAX:	505-393-0720
BILL TO:	S.A.R.
COMPANY:	
ADDRESS:	

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
XL SUMP #5 9801301645	1/30/98	445 PM	WATER	-01
" " "	1/30/98	445 PM	"	-01
WYOMING 9801301720	1/30/98	520 PM	"	-02
" " "	"	"	"	-02
~~DUPLICATE~~				
MONTANA 9801281000	1/30/98	548 PM	WATER	-03
WYOMING 9801281000	1/30/98	550 PM	"	-04
PANTHER 9801281000	1/30/98	555 PM	"	-05

Petroleum Hydrocarbons (418.1) TRPH
(MOD.8015) Diesel/Direct/Inject
(M8015) Gas/Purge & Trap
Gasoline/BTEX & MTBE (M8015/8020)
BTXE/MTBE (8020)
BTEX & Chlorinated Aromatics (602/8020)
BTEX/MTBE/EDC & EDB (8020/8010/Short)
Chlorinated Hydrocarbons (601/8010)
504 EDB ☐ / DBCP ☐
Polynuclear Aromatics (610/8310)
Volatile Organics (624/8240) GC/MS
Volatile Organics (8260) GC/MS
Pesticides/PCB (608/8080)
Herbicides (615/8150)
Base/Neutral/Acid Compounds GC/MS (625/8270)
General Chemistry:
Priority Pollutant Metals (13)
Target Analyte List Metals (23)
RCRA Metals (8)
RCRA Metals by TCLP (Method 1311)
Metals:
NUMBER OF CONTAINERS

PROJECT INFORMATION	
PROJ. NO.:	WASH SUMP
PROJ. NAME:	XL JAL NM
P.O. NO.:	
SHIPPED VIA:	
SAMPLE RECEIPT	
NO. CONTAINERS:	15
CUSTODY SEALS:	Y / N / NA
RECEIVED INTACT:	Y
COOL: ICE	Y

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED: ☒ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐ SAMPLES ON ICE!

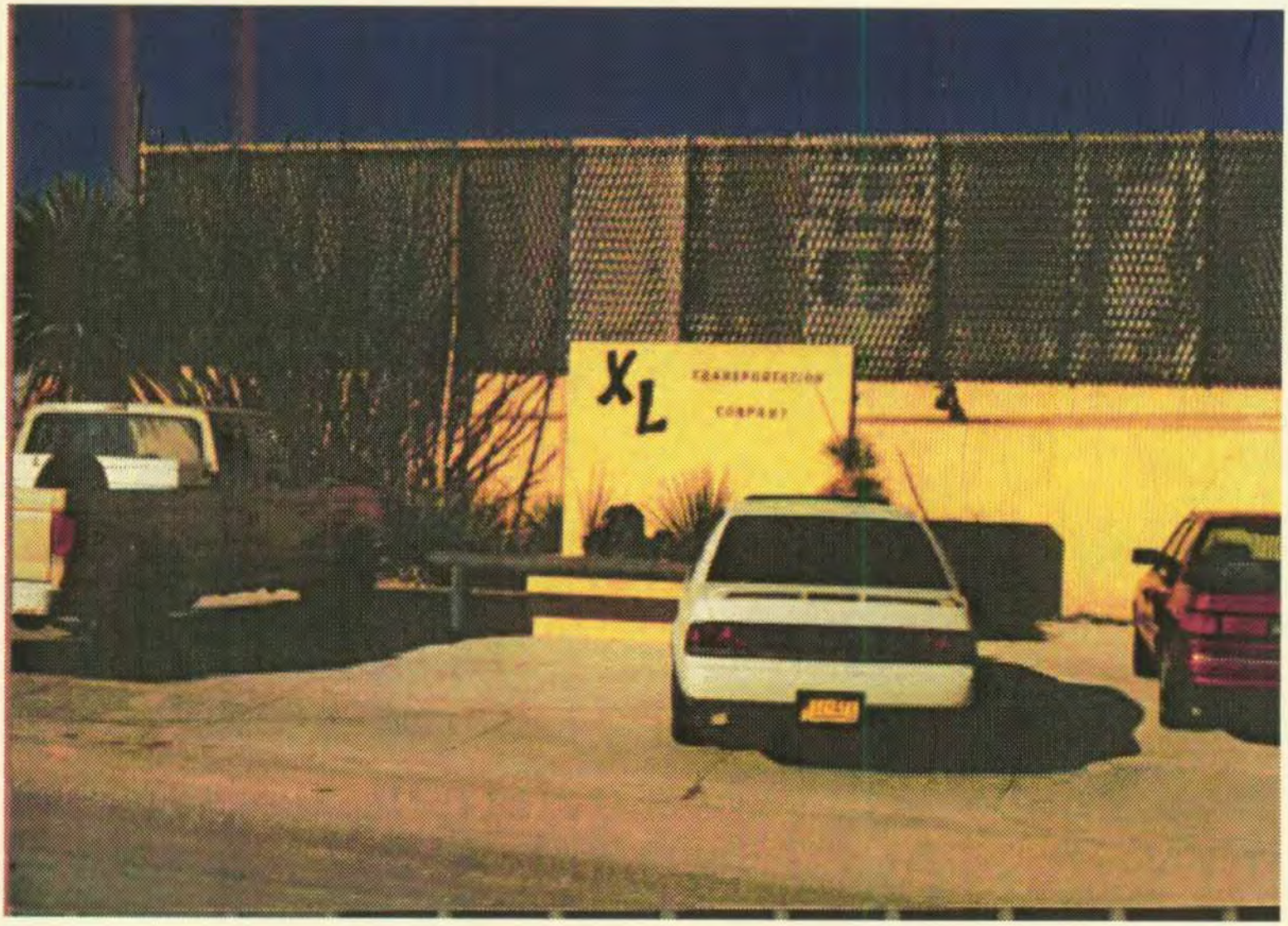
XL #5 TAKEN USING CLEAN PE BAILER 0-3'

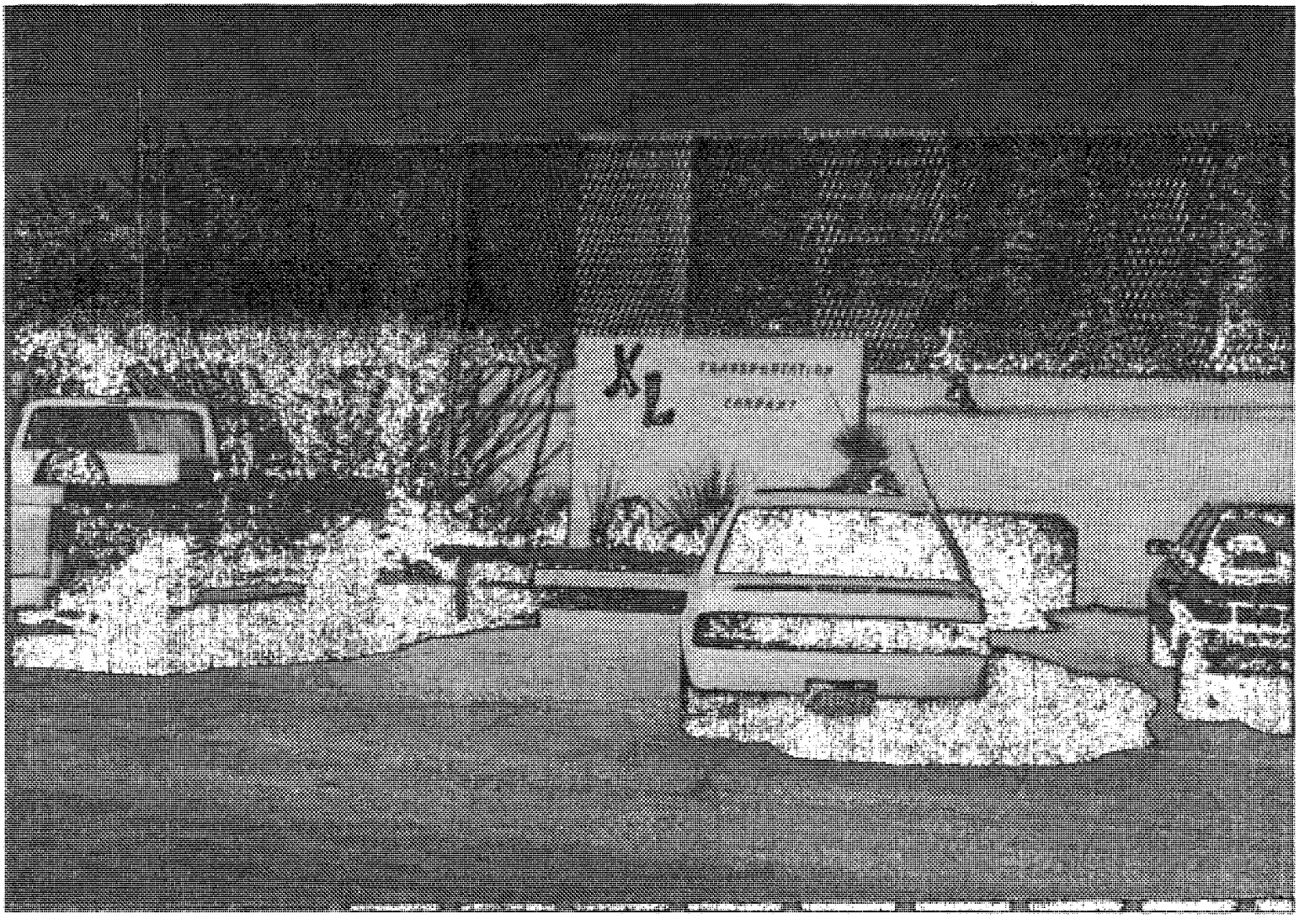
9801301720 TAKEN USING CLEAN QT JAR AS DIPPER

WITNESS: FRED SEIFTS - CITY JAL

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 8:00AM	Signature: Time:
Printed Name: WAYNE PRICE Date: 1/30/98	Printed Name: Date:
Company: NMOCD	Company:
RECEIVED BY: 1.	RECEIVED BY: (LAB) 2.
Signature: Time:	Signature: Time:
Printed Name: Date:	
Company:	

FEB 1998 Received Hobbs OCD


XL


XL

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OFFICE OF THE SECRETARY
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-5950

Jennifer A. Salisbury
CABINET SECRETARY

February 20, 1998

To: Roger Anderson

From: Wayne Price

Re: XL Sump Analysis & XL Brine St. (BW-25) inspection.

Dear Roger:

Please find enclosed the analyticals from the sampling event taken on Jan 30, 1998. Also attached is a sketch showing the different locations. Please note the analyticals with the ID 9801281000 were taken from sample containers that were collected by the City of Jal the morning after the incident. The incident occurred the night of Jan 27, 1998. These samples reflect Toluene at high concentrations down stream of the XL sump. The Up-stream manhole (Montana) was "ND" for Toluene.

For clarification the Montana manhole is up-stream of the XL facility. The Wyoming & Panther is down stream.

After reviewing the data, it appears at this time the source of Toluene was the XL sump.

I recommend that we follow through with XL performing an internal investigation so as we can understand how Toluene waste is generated in the sump. This will help classify if this waste water and or the sludge in the bottom of the sump is exempt/non-exempt and thus a possible "Listed Hazardous Waste". Also we need to know how often and where this waste is being disposed of. This can be part of the Discharge Plan. I also recommend that we have XL supply us the analytical data they collected during our sampling event.

Please note XL normally washes out trucks at their Brine Facility wash out pit (BW-25). I recommend we have XL describe how and what type of waste is discharged into this pit. Please note this sludge according to Chris Brininstool, has been going to Sundance (Parabo) facility.

Please note the NMOCD District I office received a complaint about contaminated soil being disposed of from the Brine St. onto a lot located inside city of Jal, NM. My investigation revealed that J.L.N.M. Construction Co. (P.O. Box 566 Jal, NM 88252) hauled the sludge from the brine pit and dumped it at their facility in Jal, NM. According to the owner Mr. Jimmy Hill he did this as a temporary storing area, then he hauled to Sundance Parabo. He supplied me Parabo tickets. Pictures were taken of the staging area.

I inspected the Brine St. (BW-25) with Chris Brininstool and took pictures. They have installed an additional concrete pad with curb next to the wash-out pit to hold the wet sludge until it is dry enough to haul off. I understand there might be some mixing of sludge and soil to help solidify it. The pad & curd is designed to drain back to the pit. They have also installed a new underground drain line and above ground waste tank downhill from the pit. This new tank is on a 30 mil liner and bermed. Also they have added a KCL mixing station.

I ask Chris Brininstool if they have modified their discharge plan, she said no.

I recommend that XL\Salado Brine ST (BW-25) be required to modify their discharge plan to reflect the new changes, plus they should list all types of waste, chemicals, etc that are discharged into the wash-out pit. They should determine if this waste is exempt or non-exempt. Is Toluene being discharged into this pit?

I also recommend that J.L.N.M be notified if they discharged any more contaminated soils at their site they will be required to obtain a Discharge Plan.

cc: Chris Williams-District I Supervisor
Jack Ford & Mark Ashley- NMOCD SF

attachments- for XL Transportation. cc of analyticals & sketch.
- for Brine ST BW025 cc of pictures.

RECEIVED

FEB 09 1998

Environmental Bureau
Oil Conservation Division

NMOCD INTER-OFFICE CORRESPONDENCE

TO: File of XL Transportation Co.

From: Wayne Price-Environmental Engineer

Date: 1-30-98

Reference: Complaint from NM State Police about possible illegal dumping of chemicals into the City of Jal, NM city sewer system. Report taken by NMOCD Paul Kautz on Wednesday Jan 28, 1998.

Subject: Field Inspection Trip on 1-30-98 with Chris Williams, NMOCD.

Comments:

KBIM local tv coverage has been covering the story and had contacted the NMOCD District I office concerning NMOCD's investigation plans.

Met Fred Seifts, Public Works Director at City Hall. Mr. Seifts gave overview of problem. They began receiving complaints from residents in area of 1st and 2nd streets on Tuesday, January 27. Strong chemical smell, gasoline smell, glue smells and in one case a rotten egg smell. Some residents were evacuated out of their homes.

On Wednesday, January 28, city employees had traced the problem back to the area near the XL Transportation Co., an oilfield service company. The city had collected sewer water samples above (upstream) and below (downstream).

Toured area with Mr. Seifts, and had an interview with Bill Brininstool, owner of XL. Inspected XL's wash pad sump. Discovered sump contained (BTEX) type odors. Ran PID found extremely high values of organic hydrocarbons. Olfactory smells were similar to paint thinner solvent like toluene and/or xylene. Mr. Brininstool indicated his company still uses and sells toluene but does not know how these chemical constituents got into the sump. Chris Williams and I advised Mr. Brininstool to conduct an internal investigation of his employees and operations to determine the cause of this problem. Mr. Brininstool advised us he would.

Conducted PID/TDS sampling of various city of Jal sewer manhole openings and XL wash pad sump. Took pictures of sump area. A recent spill appears to have been covered with fine caliche.

See attached pictures, field sketch and field findings.

Preliminary findings indicate the source appears to be the XL sump. After a telephone conference with Roger Anderson and Bill Olsen of the NMOCD Environmental Bureau, a decision was made to recommend to XL to conduct area sampling to determine if XL's sump is a problem. NMOCD will split samples.

Williams and Price made recommendation to Mr. Brininstool. Mr. Brininstool called Cardinal Lab and set up a sampling appointment.

Met Cardinal Lab personnel at approximately 4PM and XL representative, Rule Gatewood and city of Jal's public works director, Fred Seifts.

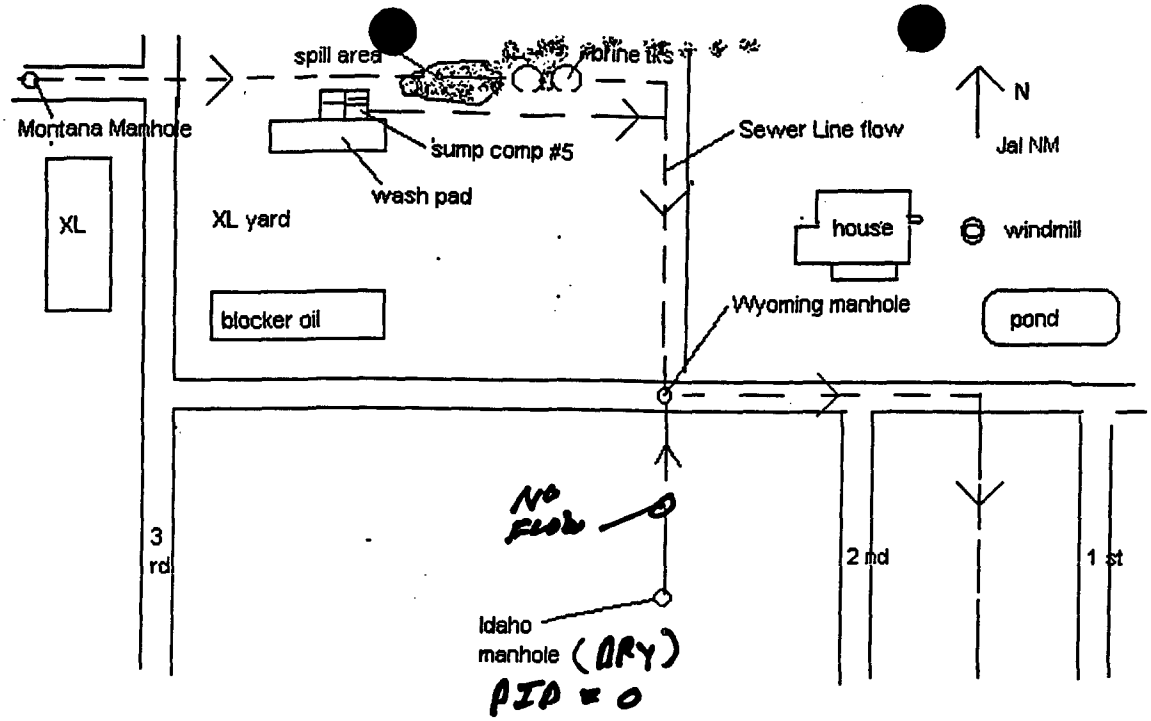
Took samples, see sampling chain of custody and attached photos.

Price and Seifts collected samples for state lab. These samples had previously been collected by city of Jal employees on Wednesday, January 28, at approximately 10 AM. These samples were noted to have the same identical olfactory smell that was experienced and observed at the XL sump.

Price and Seifts met with XL rep Rule Gatewood. Recommended to XL to isolate and contain all water in sump. Mr. Gatewood was going to plug inlet of sump.

cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Bill Olson-Environmental Bureau, Santa Fe, NM

attachments- pictures, field sketch & notes, chain of custody.



FIELD SKETCH

TOOK PICTURES 1/30/98
BY L. PRICE - NMOCD
WITNESS: C WILLIAMS

PID READINGS

XL SUMP COMP #5 @ 12 NOON	HELD ABOVE WATER IN SUMP	PID	691 PPM (BTEX) PAINT THINNER SMELL
	COLLECTED SAMPLE USING 3' PE BAILER - RAN HEADSPACE IN QT JAR		>2500 PPM (BTEX) CLEAR WATER TDS 1700 UMHOS STRONG BENZENE-LIKE ODOR
XL SUMP COMP #5 OUTLET TO CITY SEWER	TDS SUMP UMHOS		

TDS UMHOS	TP	#1	#2	#3	#4	#5
CITY 400 UMHOS	Top	3000	1800	1000	1000	1000
	Mid					3900
	Bott	13,000	13000	5000	5000	5000

MONTANA MANHOLE 12:20 PM	• HELD ABOVE WATER FLOW	PID	"ND" (BTEX)
	• COLLECTED WATER SAMPLE QT JAR - HEADSPACE	PID	0-5 PPM SLIGHT SMELL ONLY 0-10% TURBID/TDS 750
WYOMING MANHOLE	• HELD ABOVE WATER FLOW	PID	45 PPM (BTEX)
	• COLLECTED WATER SAMPLE QT JAR - HEADSPACE		161 PPM SAME SMELL AS XL SUMP 0-10% TURBID TDS 700 UMHOS

American Environmental Network (NM), Inc.

Albuquerque • Phoenix • Pensacola • Portland • Pleasant Hills • Columbia

CHAIN OF CUSTODY

DATE: 1/30/98 PAGE: 1 OF 1

AEN LAB I.D.

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: WAYNE PRICE

COMPANY: MMOCD

ADDRESS: P.O. 1980
HOBBS N.M 88241

PHONE: 505-393-6161

FAX: 505-393-0720

BILL TO: S.A.R.

COMPANY:

ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct/Inject	(M8015) Gas/Purge & Trap	Gasoline/BTEX & MTBE (M8015/8020)	BTXE/MTBE (8020)	BTEX & Chlorinated Aromatics (602/8020)	BTEX/MTBE/EDC & EDB (8020/8010/Short)	Chlorinated Hydrocarbons (601/8010)	504 EDB☐ / DBCP☐	Polynuclear Aromatics (610/8310)	Volatile Organics (624/8240) GC/MS	Volatile Organics (8260) GC/MS	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
XL SUMP #5 9801301645	1/30/98	445pm	2WTR													X										3
" " "	1/30/98	445pm	"																X							2
WYOMING 9801301720	1/30/98	520pm	"													X										1
" " "	"	"	"																X							1
[illegible]																										
MONTANA 9801281000	1/30/98	548pm	2WTR													X										3
WYOMING 9801281000	1/30/98	550pm	"													X										3
PANTHER 9801281000	1/30/98	555pm	"													X										3

PROJECT INFORMATION

PROJ. NO.: WASH SUMP

PROJ. NAME: XL JAL NM

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

NO. CONTAINERS	
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	
BLUE ICE/ICE	

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) X

CERTIFICATION REQUIRED: X NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐ SAMPLES ON ICE!

XL #5 TAKEN USING CLEAN PE BAILER 0-3'

9801301720 TAKEN USING CLEAN GL JAR AS DIPPER

ATTENTION: FRED SEIFTS - CREY/JAL

RELINQUISHED BY: 1.

Signature: Wayne Price Time: 8:00AM

Printed Name: WAYNE PRICE Date: 1/30/98

Company: MMOCD

RECEIVED BY: 1.

Signature: Time:

Printed Name: Date:

Company:

RELINQUISHED BY: 2.

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY: (LAB) 2.

Signature: Time:

Printed Name: Date:

American Environmental Network (NM), Inc.

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

February 2, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-357-869-915

Ms. Chris Brininstool
XL Transportation Company
Drawer A
Jal, New Mexico 88252

RE: DISCHARGE PLAN REQUIREMENT
XL Transportation Jal Service Facility
Lea County, New Mexico

Dear Ms. Brininstool:

Under the provisions of the New Mexico Water Quality Control Commission (WQCC) Regulations and based upon the decision reached by the WQCC hearing at its April 9, 1996 meeting, XL Transportation Company (XL) is hereby reminded that the filing of a discharge plan is required for the existing XL facility located at 113 North 3rd Street in Jal, New Mexico.

Section 3106 of the regulations requires a submittal of the discharge plan within 120 days of receipt of notice without an approved extension. Based upon the above referenced ruling by the WQCC, an application for a discharge plan must be received by the Oil Conservation Division (OCD) in Santa Fe, New Mexico within 30 days of receipt of this notification.

XL has previously been notified of this requirement by letter dated November 22, 1995 with appropriate identification of applicable rules and regulations for such requirement. A copy of appropriate rules and regulations have previously been furnished. Although previously furnished, enclosed find an application form and a copy of OCD Guidelines for the Preparation of Discharge Plans at Oil Field Service Facilities. Two copies of your discharge plan application should be submitted to the OCD Santa Fe office and one copy to the Hobbs District Office for review.

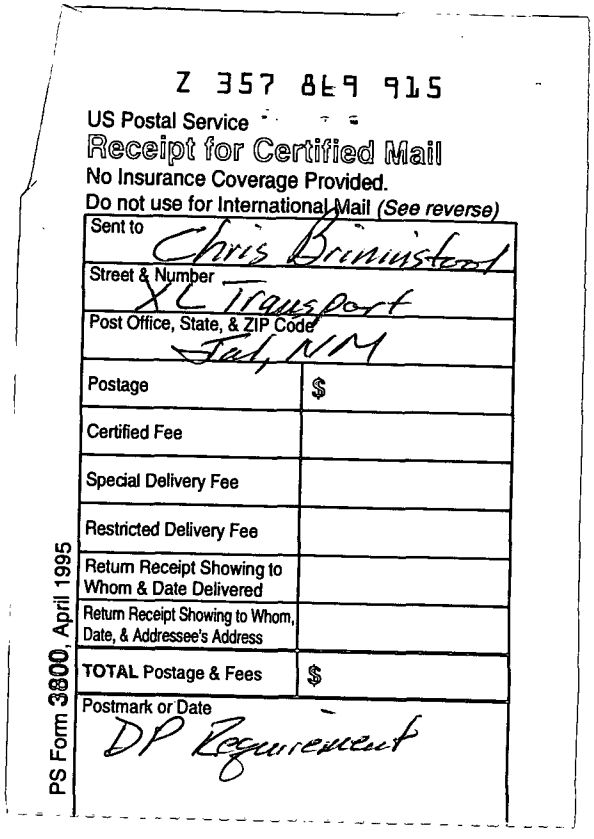
Fee requirements are set forth in the letter from OCD dated November 22, 1995, a copy of which is attached. If there are any questions on this matter, feel free to contact Mr. W. Jack Ford, Environmental Bureau, OCD at (505) 827-7156 as he is assigned responsibility for review of this service facility discharge plan.

Sincerely:

Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

Enclosures: (2)
Attachment (1)

cc: Hobbs OCD District Office


Z 357 869 915

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to Chris Brininstool	
Street & Number XL Transport	
Post Office, State, & ZIP Code Jal, NM	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date DP Requirement	

PS Form 3800, April 1995

NMOCD INTER-OFFICE CORRESPONDENCE

TO: File of XL Transportation Co.

From: Wayne Price-Environmental Engineer

Date: 1-30-98

Reference: Complaint from NM State Police about possible illegal dumping of chemicals into the City of Jal, NM city sewer system. Report taken by NMOCD Paul Kautz on Wednesday Jan 28, 1998.

Subject: Field Inspection Trip on 1-30-98 with Chris Williams, NMOCD.

Comments:

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Took samples, see sampling chain of custody and attached photos.

Price and Seifts collected samples for state lab. These samples had previously been collected by city of Jal employees on Wednesday, January 28, at approximately 10 AM. These samples were noted to have the same identical olfactory smell that was experienced and observed at the XL sump.

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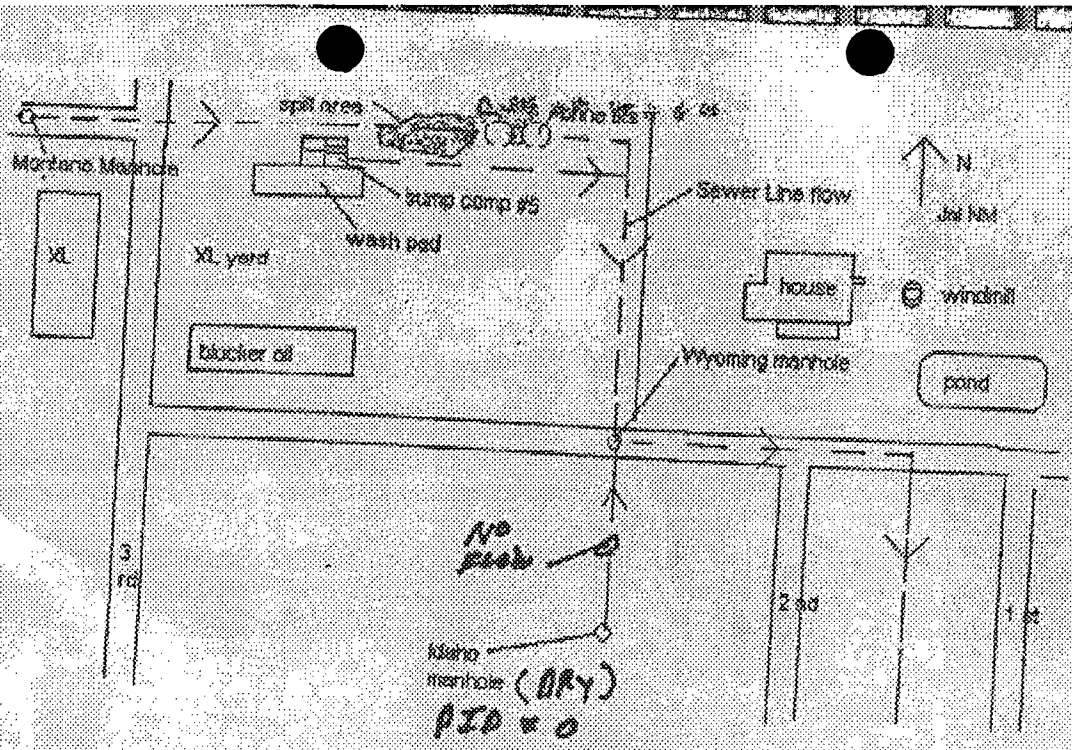
cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
Bill Olson-Environmental Bureau, Santa Fe, NM

attachments- pictures, field sketch & notes, chain of custody



FIELD SKETCH

TOOK PICTURES 1/30/98
BY D. PRICE - NMOCD
ADDRESS: CARLSBAD

PID READINGS

XL SUMP COMP #5 @ 12 NOON	HELD ABOVE WATER IN SUMP	671 PPM (BLEX) PAINT THINNER SMELL
	COLLECTED SAMPLE USING 3' PC BAILER - RAN HEADSPACE IN QT JAR	>2500 PPM (BLEX) CLEAR WATER TDS 1700 PPM? STRONG BENZENE - LIKE ODOR
XL SUMP COMP #5 OUTLET TO CRY SEWER	TDS SUMP MARKS	

	TP	#1	#2	#3	#4	#5
CRY SEWER MAIN	TPH	5000	1800	1000	1000	1000
	BTEX	13,000	13000	5000	5000	3500
						5000

ONTARIO MANHOLE 12:20 PM	• HELD ABOVE WATER FLOW • COLLECTED WATER SAMPLE IN QT JAR - HEADSPACE	PID PID	"NO" (BLEX) 0-5 PPM SENSOR SMELL ONLY 0 TO 2 EVAP/TDS 750
IRVING MANHOLE	• HELD ABOVE WATER FLOW • COLLECTED WATER SAMPLE IN JAR - HEADSPACE	PID	45 PPM (BLEX) 161 PPM SAME SMELL AS XL SUMP 0-10 % EVAP. TDS 700 PPM

American Environmental Network (NM), Inc.

[illegible]

CHAIN OF CUSTODY

DATE: [illegible] PAGE [illegible] OF [illegible]

PROJECT MANAGER: [illegible]

COMPANY: [illegible]

ADDRESS: [illegible]

[illegible]

PHONE: [illegible]

FAX: [illegible]

BILL TO: [illegible]

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	ANALYSIS REQUEST
[illegible]	[illegible]	[illegible]	[illegible]	X
" " "	[illegible]	[illegible]	"	X
[illegible]	[illegible]	[illegible]	"	X
" " "	"	"	"	X
[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	X
[illegible]	[illegible]	[illegible]	"	X
[illegible]	[illegible]	[illegible]	"	X

PROJECT INFORMATION

PROJ. NO.: [illegible]

PROJ. NAME: [illegible]

P.O. NO.:

SHIPPED VIA:

SAMPLE RECEIPT

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

COMMENTS: [illegible]

[illegible]

[illegible]

[illegible]

RELINQUISHED BY: [illegible]

Company: [illegible]

RECEIVED BY:

PLEASE FILL THIS FORM IN COMPLETELY

SHADED AREAS ARE FOR LAB USE ONLY


15
#1
12
14
13


XL SUMP
SAMPLE POINT!

COPY

STATE OF NEW MEXICO

WATER QUALITY CONTROL COMMISSION

IN THE MATTER OF THE PETITION
FILED BY XL TRANSPORTATION COMPANY

ORDER ON PETITION

The Water Quality Control Commission ("Commission"), at its April 9, 1996 meeting, considered the letter filed March 18, 1996 by XL Transportation Company ("petition"), and after deliberating on the matter, reached the following decision:

1. Petitioner seeks an "exemption" from the requirement to obtain a discharge plan. 20 NMAC 6.2.3104. The Water Quality Act does not provide an exemption process; however, the petition is entitled "Variance Petitions". Therefore, the Commission reviewed the petition to determine if a hearing should be granted as either a request for variance under Section 74-6-4(G), or, in the alternative, as a review of a "permitting action" under Section 74-6-5(N).

2. Variance. The Commission Regulations require the Commission to decide within 60 days of receipt of a variance petition whether to hold a hearing on the petition. 20 NMAC 6.2.1210.B. The Water Quality Act and the regulations allow the Commission to deny a variance request without a hearing. Section 74-6-4(G).

3. The Commission is only authorized to grant a variance from a Commission Regulation "for the period of time specified by the commission". Section 74-6-4(G). The Regulations limit the length of a variance to a maximum of 5 years. 20 NMAC 6.2.1210.D.9. Petitioner seeks to exempt its facility from the requirement to obtain a discharge plan for an unlimited time period. The Commission has held that a variance is not appropriate for granting an exemption from the requirement to obtain a discharge plan. In re Permian Treating Chemicals, Inc. (7/14/95).

4. Review of Agency Action. The Commission shall hold a hearing on a request for review of a permitting action "if a timely petition for hearing is made". Section 74-6-5(O). The petition must be filed with the Commission within 30 days after notice is given of the permitting action. The Commission has strictly construed this provision. See In re Discharge Plan 558 (Navajo Nation, Petitioner) (4/26/95) (dismissing petition filed 31 days after notice of agency action). Notice of the action by the Oil Conservation Division requiring a discharge plan was received by the Petitioner on November 27, 1995, and the petition was filed with the Commission on March 18, 1996, some 112 days later.

THE COMMISSION CONCLUDES THAT:

1. The Commission can not issue a variance to provide an unlimited exemption from Commission Regulations; and

2. The petition is not a timely petition for hearing on a permitting action under Section 74-6-5(N).

THE COMMISSION ORDERS THAT the Petition submitted by XL Transportation Company be dismissed.

WATER QUALITY CONTROL COMMISSION

Date: 5/29/96

Chairman

CERTIFICATE OF SERVICE

I hereby certify that true and correct copies of the foregoing Order were mailed by first-class mail to the following persons on June 10, 1996.

Christine Brininstool
XL Transportation
P.O. Drawer A
Jal, NM 88252

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

Joyce R. Croker

Joyce R. Croker
Administrative Secretary
New Mexico Water Quality
Control Commission

STATE OF NEW MEXICO
WATER QUALITY CONTROL COMMISSION

1190 St. Francis Drive P.O. Box 26110, Santa Fe, New Mexico 87502
(505) 827-2824

CONSTITUENT AGENCIES:

Environment Department
State Engineer & Interstate Stream Commission
Game and Fish Department
Oil Conservation Division
Department of Agriculture
State Park & Recreation Division
Soil and Water Conservation Bureau
Bureau of Mines and Mineral Resources
Member-at-Large

REVISED PROPOSED AGENDA
NM WATER QUALITY CONTROL COMMISSION MEETING
APRIL 9, 1996
STATE CAPITOL BUILDING, ROOM 317
CORNER OF OLD SANTA FE TRAIL AND
PASEO DE PERALTA
SANTA FE, NEW MEXICO
9:00 A.M.

1. Roll Call.
2. Approval of the Agenda.
3. Review of the proposed minutes of January 11, 1996.
4. Hearing in the matter of Petition for Variance of Taos Ski Valley, Inc.
5. Deliberation and possible action on Petition for Variance of Taos Ski Valley, Inc.
6. Procedural issues in pending adjudicatory matters - XL Transportation Company and DP-666, Western Star Dairy.
7. Proposed settlement in LAC Minerals (USA) Inc. v. NM WQCC (New Mexico Court of Appeals).
8. Update on legislative items.
9. Other Business

The Commission is not confined to the items listed on the agenda. Other items may be considered that are not listed on the agenda.

XL Transport Co. Inc Jal, NM

11/22/95 → Notice of Dschg Plan Request
11/27/95 → Received

107 days later → Filed a letter w/ WQCC
(3/13/96) [3/26/96] Deadline
3/19/96

Apparently exemption from filing since no particular DP request cited as requesting variance from

Willing to give extension to (XL) Transportation

Permian Treating Plant

* Requirement for dschg plan

Shelby Gilmore

10/18

11/22/95 Letter: Bill to Brininstool

XL Transport. Co.
Jal, NM

Received 11/27/95

12/27	30
1/26	60
2/25	90
3/13	107

3104/3106 Dischg plan reqd
1101.N.

3100 — w/i 120 days of receipt unless extension of time is sought/approved

3106 — discharge w/o approved dischg plan until 240 days after notice

3114 Fees $50 plus $1380

3/13/96 Brininstool

* Variance Petitions
* Exemption

We.

XL TRANSPORTATION COMPANY

P.O. DRAWER A
JAL, NEW MEXICO 88252
505-395-2010 800-748-2265
FAX 505-395-2914

March 13, 1996

New Mexico Water Quality Control Commission
P. O. Box 26110
Santa Fe, New Mexico 87502

Re: Variance Petitions

Dear Sir:

William H. Brininstool dba XL Transportation Company is requesting your consideration for an exemption from a discharge plan requirement. XL Transportation Company, located at 113 North 3rd street in Jal, is a small trucking firm that transports liquids for the oil and gas industry. XL Transportation Company yard consists of an office building, a 3 bay shop building, and a caliche yard where trucks are parked.

The Oil Conservation Division inspected XL Transportation buildings and yard. The OCD inspectors made a few suggestions for changes and XL Transportation informed the inspectors that these changes would be made with OCD approval and inspections. XL Transportation Company still received notice that this facility would have to comply with a discharge plan. When asked if there was other changes that needed to be made to comply with the OCD to be exempt from the discharge plan, I was told no, that because I had storage of motor oil, transmission fluid, and grease inside the shop facility that a discharge plan is required.

Reviewing rules and regulations that was sent with letter requiring XL Transportation Company to comply with a discharge plan, I would like to make several comments.

> ARTICLE 6
> Water Quality
> 74-6-2. Definitions.
>
> B. "water pollution" means introducing or permitting the introduction into water, either directly or indirectly, of one or more water contaminants in such quantity and of such duration as may with reasonable probability injure human health, animal or plant life or property, or to unreasonable interfere with the public welfare or the use of property;

XL Transportation Company does have storage containers in the truck shop that contains lubricants for trucks. Storage containers are resting on an above ground rack, which is on a concrete floor. XL employees are in the shop daily. I can assure you if a container leaked, it

would be fixed immediately, lubricants are too expensive to waste on a concrete floor. XL Transportation Company facility is not the type of operation that would do environmental harm. The shop floor, where trucks are repaired and lubricants changed is concrete. The ground around the shop is caliche.

L. "source" means a building, structure, facility or installation from which there is or may be a discharge of water contaminants directly or indirectly into water;

As stated earlier in this letter XL Transportation Company is located in Jal. Jal is in the Southeast corner of the state, 7 miles going South or East to the Texas border. The closest above ground water (good water) is Carlsbad which is 75 miles West. The closest above ground water (contaminated) is the lakes created by the potash industry approximated 55 miles West. There is underground water in Jal, some shallow that is still used for watering plants, but not for drinking. Other water is located approximately 350 feet deep. Within a mile radius of XL Transportation facility there are several oil and gas wells. It seems unlikely if transmission fluid leaked from a storage container onto a concrete floor and found within a day, it would not cause the underground water to be contaminated.

O. "substantial adverse environmental impact" means that an act or omission of the violator causes harm or damage:

(1) to human beings; or

(2) that amounts to more than ten thousand dollars ($10,000) damage or mitigation costs to flora, including agriculture crops; fish or other aquatic life; waterfowl or other birds; livestock or wildlife or damage to their habitats; or ground water or surface water or to the lands of the state;

I do not believe if all storage containers leaked in the shop on the concrete floor that it would cause harm to humans, or the cost would be more than ten thousand dollars. I would like to give you some back ground information about Mr. William H. (Bill) Brininstool, the owner of XL Transportation Company. Bill's parents homesteaded 30 miles Northwest of Jal in 1919 on land that Bill now owns. Bill has been active in the establishment of wildlife, especially quail. He has purchased and raised Bobwhite quail for release and it has resulted in a successful restocking program. Bill's ranch consists of 38 sections of deeded, State leased, and BLM leased land. Bill has 23 water troughs, which consist of 36 miles of water lines, and has built 18 dirt tanks. All watering troughs have ramps for small wildlife to be able to get in and out to drink. Bill has received numerous awards through the years, Outstanding Conservation Rancher of the Lea SWCD, Society for Range Management award for Excellence in Grazing Management, and many more. Bill has and continues to practice range management in deferred grazing to allow the forage to conserve and develop. Bill Brininstool is not a man that would cause environmental harm.

G. may grant an individual variance from any regulation of the commission, whenever it is found that compliance with the regulation will impose an **unreasonable burden** upon any lawful business, occupation or activity. The commission may only grant a variance conditioned upon a person effecting a particular abatement of water pollution within a reasonable period of time. Any variance shall be granted for the period of time specified by the commission. The commission shall adopt regulations specifying the procedure under which variances may be sought, which regulations shall provide for the holding of a public hearing before any variance may be granted;

74-6-5. Permits; certification; appeals to commission.

I. By regulation, the commission may **impose reasonable conditions** upon permits requiring permittees to:

(1) install, use and maintain effluent monitoring devices;

(2) sample effluents and receiving waters for any known or suspected water contaminants in accordance with methods and at locations and intervals as may be prescribed by the commission;

(3) establish and maintain records of the nature and amounts of effluents and the performance of effluent control devices;

(4) provide any other information relating to the discharge or direct or indirect release of water contaminants; and

(5) notify a constituent agency of the introduction of new water contaminants from a new source and of a substantial change in volume or character of water contaminants being introduced from sources in existence at the time of the issuance of the permit.

74-6-5.1. Disclosure Statements.

A. The commission by regulation may require every applicant for a permit to dispose or use septage or sludge, or within a source category designated by the commission, to file with the appropriate constituent agency a disclosure statement. The disclosure statement shall be submitted on a form developed by the commission and the department of public safety. The commission in cooperation with the department of public safety shall determine the information to be contained in the disclosure statement. The disclosure statement shall be submitted to the constituent agency at the same time that the applicant files an application for a permit pursuant to Section 74-6-5 NMSA 1978. The commission shall adopt regulations designating additional categories of sources subject to the disclosure requirements of this section as it deems appropriate and necessary to carry out the purposes of this section.

B. Upon a request by the constituent agency, the department of public safety shall prepare and transmit to the constituent agency an investigative report on the applicant within ninety days after the department of public safety receives an administratively complete disclosure statement prepared by the applicant for a permit. The investigative report shall be based in part upon the disclosure

statement. The ninety-day deadline for preparing the investigative report may be extended by the constituent agency for a reasonable period of time for good cause. The department of public safety in preparing the investigative report may request and receive criminal history information from any other law enforcement agency or organization. The constituent agency may also request information regarding a person who will be or could reasonably be expected to be involved in management activities of the permitted facility or a person who has a controlling interest in a permitted facility. The information received from a law enforcement agency shall be kept confidential by the department of public safety to the extent that confidentiality is imposed by the law enforcement agency as a condition for providing the information to the constituent agency or the commission.

I believe requesting the trucking industry to comply with the commission regulations is an unreasonable burden. Last year I started working with Governor Gary Johnson, Secretary of Taxation and Revenue John Chaves, and Secretary of Highways and Transportation Mr. Pete Rahn to find ways to alleviate burdensome regulations and taxes that have been imposed on the trucking industry. In 1995 the trucking industry was deregulated. The tax burden and regulations imposed on the trucking industry before deregulation were reflected in rates that were enforced by the State of New Mexico. Since deregulation, New Mexico trucking companies are not able to compete with Texas companies. As a trucking company in New Mexico I pay 30% more per truck for registration, fuel tax, and highway tax than an identical trucking company located in Texas. Worker's compensation insurance in New Mexico is 40% higher than a Texas trucking company and Texas does not have a State Income Tax. In 1995 I presented this testimony to the Revenue Stabilization and Tax Policy Committee. The trucking industry was charged by this committee to study and find solutions to improve trucking industry growth in the State of New Mexico. Governor Gary Johnson, Secretary John Chaves, and Secretary Pete Rahn were instrumental in this last session to have money appropriated by the State of New Mexico to complete this study. The trucking industry is charged with completing this study and presenting recommendations to the Revenue Stabilization and Tax Policy Committee during their 1996 interim hearings.

74-6-9. Powers of constituent agencies.

D. make every reasonable effort to obtain voluntary cooperation in the prevention or abatement of water pollution;

E. upon presentation of proper credentials, enter at reasonable times upon or through any premises in which a water contaminant source is located or in which are located any records required to be maintained by regulations of the federal government or the commission; provided that entry into any private residence without the permission of the owner shall be only by order of the district court for the county in which the residence is located and that, in connection with any entry provided for in this subsection, the constituent agency may:

(1) have access to and reproduce for their use any copy of the records;

(2) inspect any treatment works, monitoring equipment or methods required to be installed by regulations of the federal government or the commission; and

(3) sample any effluents, water contaminant or receiving waters;

I voluntarily cooperated with the OCD to conduct inspection. I voluntarily committed to make changes that the inspectors suggested. I made every reasonable effort with the OCD to make changes at this facility that they wanted without having the costly, burdensome discharge plan.

The current administration objective is to have fewer regulations with less government. It seems to me you are creating more regulations and more government. I do not believe this discharge plan is constitutional, as you do not require all trucking companies to comply.

I would appreciate your consideration in exempting XL Transportation Company from further burdensome and costly paperwork.

Cordially,

Christine Brininstool
Office Manager

cc: Mr. Mark Weidler
Mr. William Miller
Mr. Bill Olson
Mr. David Johnson
Mr. Wayne Cunningham
Mrs. Lynn Brandvold
Mr. Alberto Gutierrez
Mr. Paul Gutierrez
Mr. Robert Castillo
Mr. Andrew Sandoval
Mr. Shelby Gilmore
Mr. William LaMay

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505

November 22, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-593

Ms. Chris Brininstool
XL Transportation Company
Drawer A
Jal, New Mexico 88252

RE: DISCHARGE PLAN REQUIREMENT
XL Transportation, Jal Service Facility
Lea County, New Mexico

Dear Ms. Brininstool:

Under the provisions of the New Mexico Water Quality Control Commission (WQCC) Regulations, XL Transportation Company (XL) is hereby notified that the filing of a discharge plan is required for the existing XL facility located at 113 North 3rd Street in Jal, New Mexico.

This notification of discharge plan requirement is pursuant to Part 3104 and Part 3106 of the WQCC Regulations. The discharge plan, defined in Part 1101.N. of the WQCC Regulations, should cover all discharges of effluent or leachate at the facility or adjacent to the facility site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in below grade sumps, buried underground process tanks and/or piping), and closure plans for any pits or ponds whose use will be discontinued.

A copy of the regulations is enclosed for XLs' convenience. Also enclosed is an application and a copy of OCD Guidelines for the Preparation of Discharge Plans at Oil Field Service Facilities. Two copies of your discharge plan application should be submitted to the OCD Santa Fe Office and one copy to the Hobbs District Office for review purposes.

Section 3106 of the regulations requires a submittal of the discharge plan within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Part 3106 also allows the discharge to continue without an approved discharge plan until

240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". WQCC Rule 3114 became effective as of August 18, 1991, and is found on page 38 of the enclosed WQCC Rules and Regulations.

Every billable facility submitting a new discharge plan will be assessed a fee equal to the filing fee plus either a flat fee or discharge fee. The filing fee is fifty ($50) dollars and shall be submitted with the discharge plan application (nonrefundable). The remainder of the "total fee" for oil and gas service companies falls under the "flat fee" category and is equal to one-thousand, three-hundred and eighty dollars ($1380). The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval. Please make all checks out to the **NMED - Water Quality Management.**

If there are any questions on this matter, please feel free to contact Chris Eustice at (505) 827-7153 as he is assigned responsibility for review of service facility discharge plans.

Sincerely,

William J. LeMay
Director

WJL/cee

xc: Jerry Sexton, OCD Hobbs Office

CHRIS BRININSTOOL
HOME: (505) [redacted]-2870

XL TRANSPORTATION

NEW MEXICO & TEXAS
I.C.C. PERMITS

TANK TRUCKS
KILL TRUCKS

VACUUM TRUCK

FRAC TANKS
ACID

—OFFICE—
(800) 748-2265
(505) 395-2010

DRAWER A
JAL, N.M. 88252

113 N. 3rd Street

INSPECTION CHECKLIST FOR OILFIELD SERVICE COMPANIES

FACILITY NAME: XL Transportation-Jal OPERATOR: X L DATE: 10-18-95
LOCATION:
COMPANY REP(S): CHRIS BRININSTOOL
NMOCD REP(S): CHRIS EUSTICE & WAYNE PRICE
SERVICE COMPANY TYPE: TRUCKING

1. LAB PRESENT (YES / (NO))
2. Below grade sumps or tanks. ((YES) / NO) 3
3. Class IV or V Injection well(s). (YES / (NO))
4. Surface impoundments (pits) of any kind. (YES / (NO))
5. Hazardous shop solvents present. ((YES) / NO)
6. All tank/drum/fuel/lube oils stored onsite meet OCD guidelines for service company facilities.(i.e. berming and pad and curb type containments.) (YES / (NO))
7. A written spill contingency plan posted/available and implemented at the facility. (Can be viewed at the facility by OCD) (YES / (NO))
8. Wet paint waste stored at the facility-all paint cans dried before disposal. (YES / (NO))
9. All wash facilities for vehicles on a pad and curb type containment. (YES / (NO))
10. Maximum volumes: (YES / NO)

    A. Chemical type drums < 25 @ 55 gal/drum or an aggregate volume of 1375 gal of chemical product.
    B. Fuel < 660 gal in above grade tank(s)
    C. Used oil < 660 gal in above grade tank(s)
    D. Lube oil < 660 gal in above grade tank(s)
    E. Maximum total volume of A thru D < 3355 gal

11. All wastes such as empty drums, buckets, oil filters, ~~and~~ etc stored/disposed by an OCD approved method. (YES / (NO))
12. All items that contain fluids are properly labelled. (YES / (NO))
13. All stormwater contained within the facility. (YES / (NO))

COMMENTS: - KCl mixing vat leaks; leaks go to a sump, on the N side of load pad, then goes to POTW
- Drums are not stored on pad & curb
- Truck wash in maint. shop w/ sump.
- Used lube oil & solvents go to a sump on N side of maint. shop then are used to fuel furnace.
- Active discharges off yard to Arroyo (photos)

XL Transportation — Jal
10-18-95 Chris Brinins-001

Diesel Storage - above ground & bermed berm will not contain 1 & 1/3 vol
Chem (packer fluids) drums (5) in berm
KCl storage 2 - 210 tanks for containg unused KCl water
KCl mixing pit & load - Use city fresh water + KCl next to a load pad. Trucks pull onto pad & mix KCl then load All spillage on pad flows into a below grade sump next to pad.
Drum Storage ~~between~~ office & maint shop
Wash Bay - trucks brought in and wash fluids gather in floordrain and goes to POTW. Has a sand trap. They clean out w/ vacuum and ~~injec~~ disposed of at Parabo
Maint. Shop - has heater burning used lube oil
Used oil gathers in below grade sump on N. Side of shop. Ships offsite
Evidence of Overflow. Single contain.
Junk Yard N. Side of maint barn

Maintance (Cont) - Varsol is used then goes to same sumps as lube oil they burn this to heat garage