

GW - 55

GENERAL CORRESPONDENCE

YEAR(S):

1996

BioTECH REMEDIATION INC.

710 East 20th Street, Suite 400 • Farmington, NM 87401 • (505) 632-3365 • Fax (505) 632-9850

ORIGINAL

**DISCHARGE PLAN GW-55 RENEWAL
THRIFTWAY COMPANY
BLOOMFIELD REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, SAN JUAN CO., NM**

**PREPARED FOR THE
OIL CONSERVATION DIVISION
ROGER ANDERSON, DIRECTOR**

BY

**BIOTECH REMEDIATION, INC.
710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401**

JANUARY 8, 1996

FEB 5 1996

12/93

Environmental Bureau
Oil Conservation Division

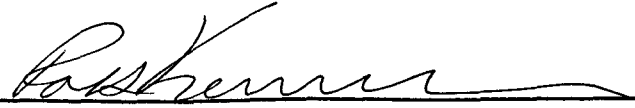
**DISCHARGE PLAN APPLICATION FOR NATURAL GAS PROCESSING PLANTS,
OIL REFINERIES AND GAS COMPRESSOR STATIONS**

(Refer to OCD Guidelines for assistance in completing the application.)

- I. TYPE: Refinery GW -55 Renewal
- II. OPERATOR: Thriftway Company
ADDRESS: 710 East 20th Street Farmington, NM 87401
CONTACT PERSON: Terry Griffin PHONE: 632-3365
- III. LOCATION: /4 SE/4 Section 32 Township 29N Range 11W
Submit large scale topographic map showing exact location.
- IV. Attach the name and address of the landowner(s) of the facility site.
- V. Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.
- VI. Attach a description of sources, quantities and quality of effluent and waste solids.
- VII. Attach a description of current liquid and solid waste transfer and storage procedures.
- VIII. Attach a description of current liquid and solid waste disposal procedures.
- IX. Attach a routine inspection and maintenance plan to ensure permit compliance.
- X. Attach a contingency plan for reporting and clean-up of spills or releases.
- XI. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water. Depth to and quality of ground water must be included.
- XII. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
- XIII. CERTIFICATION

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Ross Kennemer Title: Project Scientist/Manager

Signature:  Date: January 31, 1996

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.



710 East 20th Street, Suite 400
Farmington, New Mexico 87401
Field Office: (505) 632-3365
Fax: (505) 632-9850

DISCHARGE PLAN GW-55 RENEWAL

**THRIFTWAY COMPANY
BLOOMFIELD REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, SAN JUAN CO., NEW MEXICO**

JANUARY 8, 1996

PREPARED BY:

**BIOTECH REMEDIATION INC.
710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO**

810/810DP96

**DISCHARGE PLAN FOR THRIFTWAY COMPANY REFINERY
BLOOMFIELD, NEW MEXICO**

I. TYPE OF OPERATION

The Bloomfield, New Mexico Refinery is a Crude Oil Refinery that can process light, sweet San Juan Basin crude oil. Principle processes include crude oil fractionation, naphtha reformation, heavy oil hydrocracking, light naphtha stabilization and C3/C4 fractionation.

Light sweet crude oil can be received from the surrounding oil fields of the San Juan Basin. This crude oil is routed to the Crude Fractionating Plant where it is heated and distilled into light gasoline, heavy gasoline, diesel and fuel oil fractions. The light gasoline is routed to a stabilizer tower and then to storage for subsequent blending. Heavy gasoline is routed to the reformer where it is contacted with platinum catalyst under controlled heat, temperature and pressure conditions.

The reformer causes the long chain paraffins to be catalytically rearranged into cyclic and branched chained hydrocarbons with higher octane characteristics. The reformer product (reformatted) is blended with light gasoline etc., to create gasoline which meets New Mexico State octane requirements.

The fuel oil fraction from the crude unit is routed to the hydrocracking unit and contacted with a cobalt/nickel catalyst where it is fractured or "cracked" into gasoline or diesel range hydrocarbons. A small stream of heavy fuel oil is not "cracked" and is withdrawn as residual fuel oil.

II. OPERATOR/ LEGALLY RESPONSIBLE PARTY

THRIFTWAY COMPANY
710 East 20th Street
Farmington, New Mexico 87401

Telephone: (505) 632-3365
Fax No: (505) 632-9850

Local Representative

Terry Griffin
710 East 20th Street, Suite 400
Farmington, New Mexico 87401

Telephone: (505) 632-3365
Fax No: (505) 632-9850

III. LOCATION OF DISCHARGE FACILITY

THRIFTWAY REFINERY
626 County Road 5500
Bloomfield, New Mexico 87413

Legal description of location is the SE/4 Section 32, and SW/2, SW/4 Section 33, Township 29N, Range 11W, and 7.35 acres in the NE/4, NE/4, Section 9, Township 28N, Range 11W, NMPM, San Juan County, New Mexico.

See attached **Topographic Sheet** and **Aerial Photograph** for site location.

IV. LANDOWNERS

THRIFTWAY COMPANY
710 East 20th Street
Farmington, New Mexico 87401

Telephone: (505) 632-3365
Fax No: (505) 632-9850

V. FACILITY DESCRIPTION

The accompanying **Topographic Map** and **Site Plans** indicate the property boundaries, existing fence lines, pit locations, bermed areas, tank locations and ground water monitoring well locations. Discharge locations, storage facilities, disposal facilities, processing facilities and other relevant areas, including drum storage, have also been noted.

VI. SOURCES, QUANTITIES AND QUALITIES OF EFFLUENT AND WASTE SOLIDS

A. SOURCES AND QUANTITIES

1. SEPARATORS AND STORAGE TANKS (Produced Water)

Crude oil is received by the refinery containing less than 10% bottom sediment and water. The water separates from the crude oil in the storage tank and is drawn-off as shown in **Sheet A-4**, entitled "**WATER DRAIN SPILL CONTAINMENT SYSTEM**".

The produced water is transported from the receiving tank via vacuum truck to the waste water evaporation pond. The separators in the process area separate the produced water and condensed steam from the hydrocarbon stream. The water is trucked to the waste water separator tank at the evaporation containment lagoons. This stream has averaged 350 gallons per day and has been high in TDS, NaCl and hydrocarbons.

2. Boilers

The refinery utilizes two small boilers (100HP and 40HP) to provide steam for stripping, heat tracing, etc.. Boiler blow down is routed to the containment lagoons for evaporation. The stream has been estimated to be approximately 125 gallons per day and high in TDS. A phosphate based boiler treatment compound has been used to prevent boiler system corrosion.

3. Engine Cooling Waters

The refinery does not generate engine cooling waters.

4. Cooling Tower

A 450 ton per day capacity Marley updraft cooling tower provides process cooling waters for plant operation. Small amounts of biocide and phosphates are used to inhibit corrosion. A small stream is purged to prevent high TDS. This stream has averaged 600-800 gallons per day and is high in TDS.

5. Sewage (No Co-Mingling)

The refinery has three restroom facilities. Each facility is served by a separate septic tank and leach field. There is no co-mingling of this sewage with other outfall streams.

6. Other Sources

Process floor drainage and miscellaneous cleaning activities have contributed an estimated 50 to 100 gallons per day to the process drain system. These wastes can contain hydrocarbons.

B. QUALITY CHARACTERISTICS OF CO-MINGLED WASTE STREAMS

All waste water effluent streams are co-mingled within the plant. Waste streams are routed through the process drain system and through an oil/water separator to the evaporation lagoons. The evaporation lagoons are double lined and equipped with leak detection devices to prevent contact with the ground water. Analysis of the commingled stream was performed in 1990 and is included in the appendices. The samples were collected from the commingled stream and transported to the Intermountain Laboratory facility in Farmington, New Mexico for analysis as indicated on the accompanying Chain of Custody. Each sample was delivered to the laboratory within two-hours of sampling. The stream met WQCC standards for a non-hazardous classification. PCB, pesticide and radio active element analysis was not performed because PCB's, pesticides and radio active elements above natural background levels have never been introduced into the refinery.

VII. TRANSFER AND STORAGE OF PROCESS FLUIDS AND EFFLUENTS

1. Effluent Flow Schematics

The Process Oil Collection System is shown on the **Site Plans and Process Oil Collection System Sheet, A-2**. This system is used to prevent hydrocarbon spills during sampling of the process streams or purging of process vessels. Hydrocarbons generated during this process are transported to the crude tank via vacuum truck.

The final source of effluent is the produced water that is entrained in the incoming crude oil or is entrained in the refinery products. Entrained water which breaks out of hydrocarbon fluids upon standing in storage tanks is suppressed by mixers installed on the tanks.

Each crude tank is equipped with a water draw located near the tank bottom. The water is drawn manually and is routed to an underground cement vault or an externally lined steel tank. Any water drawn is then transported via vacuum truck to the oil/water separator prior to being discharged to the waste water evaporation lagoons.

Produced water and/or other fluids collected from the spill collection pad basins around the storage tanks are picked up with a vacuum truck and transported to the oil/water separator prior to the water being released into the evaporation lagoons.

2. Potential Discharge To Surface Or Subsurface

Fluids which are collected in the steel and cement collection tanks are removed via vacuum truck and transferred to either the oil/water separator or to the crude storage tank.

Except for drain piping, all piping is located above ground on pipe racks where any leak would be immediately visible.

Plant operating and maintenance personnel inspect the process and storage areas of the refinery on a daily basis. If a leak were to be present it would be noted and immediately addressed.

3. UNDERGROUND PIPE LINES

The only underground pipe lines present at the refinery are those associated with wastewater and spill collection systems. Construction of these lines consist of schedule 40 standard butt weld steel pipe, laid in a sand bed.

The process oil collection system was originally installed in 1980 and was partially replaced with the installation of a steel collection tank in March 1990. The entire system was hydro-tested in March of 1990.

The current process water system collects all water within the process area. The floor drains are routed directly to the oil/water separator. The entire system was hydro-tested prior to being put into service.

VIII. SPILL/LEAK PREVENTION and SOLID WASTE DISPOSAL

Any spill that might occur in the process unit drains to the collection basins and then routed to the oil/water separator. Skimmed oil is routed back to the crude oil tank for reprocessing and the water is air stripped and then discharged to the double lined evaporation lagoons.

Off-Process Area Spill/Leaks

Potential spill/leak areas consist of the product transfer lines and storage tanks. Each storage tank is bermed to contain 150% of the tanks capacity. The same berm system would also contain any leak/spill from a failed transfer pipe.

Operating and maintenance personnel are assigned to continuously inspect the storage tanks and associated piping. Upon notice of a leak/spill, appropriate actions would immediately be taken to insure that no further leak/spill would occur and the problem would be corrected.

If such a leak/spill was greater than 25 gallons, the OCD would be notified within 24 hours or by the next business day.

IX. EFFLUENT DISPOSAL

A. On-Site Operations

1-A On-Site Facilities

Fluids are collected from the process area through a system of catch basins located in the process unit floors. Following catchment, fluids are routed to the oil/water separator where separated oil is transferred back to the crude storage tank.

Produced water separated from the storage tanks is routed to the influent of the oil/water separator where it is co-mingled with the process water stream.

Underflow effluent water is routed to a double lined evaporation lagoon system, as indicated on the **Process Water System Layout Sheet A-1**.

The lagoons are sized with an engineering safety factor of two and consist of a primary liner of 35 mil polyester reinforced XR-5 resin which is resistant to both hydrocarbons and damage from the sun. The secondary liner consists of 35 mil oil resistant PVC. The liners are separated with 100 mil oil resistant Geotextile felt liners which provide an easy transport of any liquid to the leak detection laterals.

The containment berms route storm runoff away from the lagoons. The inside slope of the berm sides is 1:2 and the outside is 1:3. The lagoon has a total elevation of six-foot and is operated with a minimum of two-foot freeboard.

The lagoon system design is indicated in the **Lagoon Profile Sheet A-3** and the **Process Oil Collection System Sheet A-2**.

No other method of disposal is undertaken at the refinery site.

1-B Other Discharge(s) to Ground Water

This plan has been developed to allow positive containment of both hydrocarbons and operational effluents and to prevent any discharge to contact the ground water.

Ground water north of the lagoon system has been impacted by hydrocarbons. A remediation system (Pump and Treat) has been installed to contain the contamination and to prevent off-site migration. A free phase product recovery program has been implemented and is active. Attached is the latest Quarterly Ground Water Monitoring Report. This report summarizes the residual ground water contamination present at the subject site to date.

2. Off Site Disposal

No off site disposal of effluent or sludge has occurred.

B. PROPOSED MODIFICATIONS

There are no proposed modifications.

X. SITE CHARACTERISTICS

A. Hydrologic Features

The Kutz Canyon Wash borders the discharge site on the north proper boundary. The wash drains to the northwest, feeding the San Juan River which is approximately 1.9 miles down gradient of the site. The Kutz wash is perennial and runs only during occasions of excessive storm runoff. An additional small arroyo, on the east property boundary, drains north to the Kutz Wash.

The Ojo Alamo is the upper most aquifer at the site. Ground water quality studies conducted at the discharge site report the ground water contains high TDS and Sulfides, rendering the water useless for process or domestic purposes.

B. Geologic Description of Discharge Site

The discharge site is situated in the San Juan Basin of the Colorado Plateau. The basin is a structural depression containing deep Tertiary fill, covering rocks of the Late Cretaceous age. The local geomorphology is generally classified as alluvial fan and flood plains in the San Juan River drainage.

Site soils consist of silty light brown fine to medium grain sands extending to at least 14-feet below the ground surface.

C. Flood Protection

The Kutz Wash serves as a channel for storm runoff. Any flood waters would be routed away from the discharge site via the wash.

All storage tanks are properly dyked and the evaporation lagoons are bermed.

XI. ADDITIONAL INFORMATION

This Discharge Plan is designed to prevent contamination to the ground water by means of spill containment and use of double lined lagoons to evaporate collected effluent.

The Thriftway Refinery is a zero discharge facility.

ATTACHMENTS



2506 West Main Street
Farmington, New Mexico 87401
Tel. 505 325-4107

CLIENT: Envirotech
ID: Thriftway
SITE: #1A&B
LAB NO: F4592

DATE REPORTED: 07/18/90
DATE RECEIVED: 07/10/90
DATE COLLECTED: 07/10/90

Lab pH (s.u.).....	5.49
Lab conductivity, umhos/cm.....	2595
Lab resistivity, ohm-m.....	3.8536
Total dissolved solids (180), mg/l..	1670
Total dissolved solids (calc), mg/l.	1277
Total alkalinity as CaCO ₃ , mg/l.....	85.95
Total acidity as CaCO ₃ , mg/l.....	330.97
Total hardness as CaCO ₃ , mg/l.....	341.36
Sodium absorption ratio.....	8.03

	mg/l	meq/l
Bicarbonate as HCO ₃	104.9	1.72
Carbonate as CO ₃	0.0	0.00
Chloride.....	640.1	18.06
Sulfate.....	111.9	2.33
Calcium.....	88.4	4.41
Magnesium.....	29.4	2.42
Potassium.....	14.1	0.36
Sodium.....	341.1	14.84
Major cations.....	28.64	
Major anions.....	22.11	
Cation/anion difference.....	12.88	%

C. Neal Schaeffer
Lab Director

[illegible]



InterMountain
Laboratories, Inc.

2509 West 10th Ave.
Farmington, New Mexico 87401
Tel. 505/825-1100

CLIENT: Envirotech DATE REPORTED: 03/13/90
ID: 1A/15 DATE ANALYZED: 03/12/90
SITE: N/A DATE RECEIVED: 03/12/90
LAB NO: F4008 DATE COLLECTED: 03/12/90
Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentration	Units
-----	-----	-----
Bromobenzene	ND (50)	ug/l
Bromodichloromethane	ND (50)	ug/l
Bromoform	ND (50)	ug/l
Carbon Tetrachloride	ND (50)	ug/l
Chlorobenzene	ND (50)	ug/l
Chloroethane	ND (50)	ug/l
Chloroform	ND (50)	ug/l
Chloromethane	ND (50)	ug/l
Dibromochloromethane	ND (50)	ug/l
Dibromomethane	ND (50)	ug/l
1,2-Dichlorobenzene	ND (50)	ug/l
1,3-Dichlorobenzene	ND (50)	ug/l
1,4-Dichlorobenzene	ND (50)	ug/l
Dichlorodifluoromethane	ND (50)	ug/l
1,1-Dichloroethane	ND (50)	ug/l
1,2-Dichloroethane	ND (50)	ug/l
1,1-Dichloroethene	ND (50)	ug/l
trans-1,2-Dichloroethene	ND (50)	ug/l
1,2-Dichloropropane	ND (50)	ug/l
1,3-Dichloropropylene	ND (50)	ug/l
2,2-Dichloropropane	ND (50)	ug/l
Dichloromethane	ND (50)	ug/l
1,1,1,2-Tetrachloroethane	ND (50)	ug/l
1,1,2,2-Tetrachloroethane	ND (50)	ug/l
Tetrachloroethene	ND (50)	ug/l
1,1,1-Trichloroethane	ND (50)	ug/l
1,1,2-Trichloroethane	ND (50)	ug/l
Trichloroethene	ND (50)	ug/l
Trichlorofluoromethane	ND (50)	ug/l
1,2,3-Trichloropropane	ND (50)	ug/l
Bromochloromethane	ND (50)	ug/l
1,2-Dibromoethane	ND (50)	ug/l
cis-1,2-Dichloroethene	ND (50)	ug/l
1,1-Dichloropropene	ND (50)	ug/l
Vinyl Chloride	ND (50)	ug/l



Inter-Mountain
Laboratories, Inc.

2508 West 10th Street
Farmington, New Mexico 87401
Tel. 505/325-1111

CLIENT: Envirotech
ID: 1A/1B
SITE: N/A
LAF NO: F4008

DATE REPORTED: 03/13/90
DATE ANALYZED: 03/12/90
DATE RECEIVED: 03/12/90
DATE COLLECTED: 03/12/90

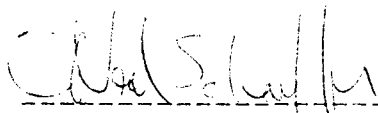
Benzyl Chloride	ND	(50)	ug/l
bis(2-chloroethoxy)methane	ND	(50)	ug/l
bis(2-Chloroisopropyl)ether	ND	(50)	ug/l
Bromomethane	ND	(50)	ug/l
Chloroacetaldehyde	ND	(50)	ug/l
1-Chlorohexane	ND	(50)	ug/l
1-Chloroethyl Vinyl Ether	ND	(50)	ug/l
Chloromethyl methyl ether	ND	(50)	ug/l
Chlorotoluene	ND	(50)	ug/l
1,3-Dichloropropene	ND	(50)	ug/l

Method:

601 Purgeable Halocarbons, 40 CFR Part 136, USEPA (1984).
8010 Halogenated Volatile Organics, SW-846, USEPA (1982).

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.


C. Neal Schaeffer
Senior Chemist



2508 West 10th Street
Farmington, New Mexico 87401
Tel: (505) 323-1700

CLIENT: Envirotech DATE REPORTED: 03/13/90
ID: 1A/1B DATE ANALYZED: 03/12/90
SITE: N/A DATE RECEIVED: 03/12/90
LAB NO: F4008 DATE COLLECTED: 03/12/90

Analyses Requested: Hazardous Waste Characterization.

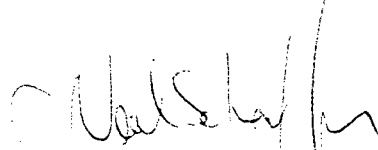
Methods:

1310 EP Tox Test Method, SW-846, USEPA (1982).

Trace metals by AA (EP Tox Leachate Concentration), mg/l

	Analytical Result:	Detection Limit:
Arsenic (As).....	ND	<1.0
Barium (Ba).....	ND	<0.5
Cadmium (Cd).....	ND	<0.01
Chromium (Cr).....	ND	<0.1
Lead (Pb).....	ND	<0.08
Mercury (Hg).....	ND	<0.0002
Selenium (Se).....	ND	<0.5
Silver (Ag).....	ND	<0.01

ND - Parameter not detected at the stated detection limit.



C. Neal Schaeffer
Senior Chemist



InterMountain
Laboratories, Inc.

2606 West Main Street
Farmington, New Mexico 87401
Tel. 505-325-1100

CLIENT: Envirotech DATE REPORTED: 03/13/90
ID: 1A/1B DATE ANALYZED: 03/12/90
SITE: N/A* DATE RECEIVED: 03/12/90
LAB NO: F4006 DATE COLLECTED: 03/12/90
Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentration	Units
Bromobenzene	ND (50)	ug/l
Bromodichloromethane	ND (50)	ug/l
Bromoform	ND (50)	ug/l
Carbon Tetrachloride	ND (50)	ug/l
Chlorobenzene	ND (50)	ug/l
Chloroethane	ND (50)	ug/l
Chloroform	ND (50)	ug/l
Chloromethane	ND (50)	ug/l
Dibromochloromethane	ND (50)	ug/l
Dibromomethane	ND (50)	ug/l
1,2-Dichlorobenzene	ND (50)	ug/l
1,3-Dichlorobenzene	ND (50)	ug/l
1,4-Dichlorobenzene	ND (50)	ug/l
Dichlorodifluoromethane	ND (50)	ug/l
1,1-Dichloroethane	ND (50)	ug/l
1,2-Dichloroethane	ND (50)	ug/l
1,1-Dichloroethene	ND (50)	ug/l
trans-1,2-Dichloroethene	ND (50)	ug/l
1,2-Dichloropropane	ND (50)	ug/l
1,3-Dichloropropylene	ND (50)	ug/l
2,2-Dichloropropane	ND (50)	ug/l
Dichloromethane	ND (50)	ug/l
1,1,1,2-Tetrachloroethane	ND (50)	ug/l
1,1,2,2-Tetrachloroethane	ND (50)	ug/l
Tetrachloroethene	ND (50)	ug/l
1,1,1-Trichloroethane	ND (50)	ug/l
1,1,2-Trichloroethane	ND (50)	ug/l
Trichloroethene	ND (50)	ug/l
Trichlorofluoromethane	ND (50)	ug/l
1,2,3-Trichloropropane	ND (50)	ug/l
Bromochloromethane	ND (50)	ug/l
1,2-Dibromoethane	ND (50)	ug/l
cis-1,2-Dichloroethene	ND (50)	ug/l
1,1-Dichloropropene	ND (50)	ug/l
Vinyl Chloride	ND (50)	ug/l

*Thriftway Refinery's Process Water



InterMountain
Laboratories, Inc.

2506 West Main Street
Farmington, New Mexico 87401
Tel. (505) 623-4737

CLIENT: Envirotech
ID: 1A-1B
SITE: N/A *
LAB NO: F4008

DATE REPORTED: 03/13/90
DATE ANALYZED: 03/12/90
DATE RECEIVED: 03/12/90
DATE COLLECTED: 03/12/90

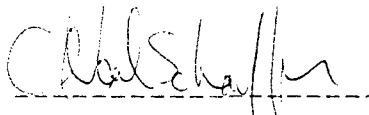
Benzyl Chloride	ND	(50)	ug/l
bis(2-chloroethoxy)methane	ND	(50)	ug/l
bis(2-Chloroisopropyl)ether	ND	(50)	ug/l
Bromomethane	ND	(50)	ug/l
Chloroacetaldehyde	ND	(50)	ug/l
1-Chlorohexane	ND	(50)	ug/l
1-Chloroethyl Vinyl Ether	ND	(50)	ug/l
Chloromethyl methyl ether	ND	(50)	ug/l
Chlorotoluene	ND	(50)	ug/l
1,3-Dichloropropene	ND	(50)	ug/l

Method:

801 Purgeable Halocarbons, 40 CFR Part 136, USEPA (1984).
8010 Halogenated Volatile Organics, SW-846, USEPA (1982).

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.



C. Neal Schaeffer
Senior Chemist

*Thriftway Refinery's Process Water



Inter-Mountain
Laboratories, Inc.

2506 West Main Street
Farmington, New Mexico 87401
Tel. 505-325-1117

CLIENT: Envirotech DATE REPORTED: 03/13/90
ID: 1A/1B DATE ANALYZED: 03/12/90
SITE: N/A* DATE RECEIVED: 03/12/90
LAB NO: F4008 DATE COLLECTED: 03/12/90

Analyses Requested: Hazardous Waste Characterization.

Methods:

1310 EP Tox Test Method, SW-846, USEPA (1982).

Trace metals by AA (EP Tox Leachate Concentration), mg/l

	Analytical Result:	Detection Limit:
Arsenic (As).....	ND	<1.0
Barium (Ba).....	ND	<0.5
Cadmium (Cd).....	ND	<0.01
Chromium (Cr).....	ND	<0.1
Lead (Pb).....	ND	<0.08
Mercury (Hg).....	ND	<0.0002
Selenium (Se).....	ND	<0.5
Silver (Ag).....	ND	<0.01

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer
Senior Chemist

*Thriftway Refinery's Process Water



InterMountain
Laboratories, Inc.

2506 West 10th Street
Farmington, New Mexico 87401
Tel. 505/325-4111

CLIENT: Envirotech
ID: Thriftway
SITE: #1A&B
LAB NO: F4592

DATE REPORTED: 07/18/90
DATE ANALYZED: 07/12/90
DATE RECEIVED: 07/10/90
DATE COLLECTED: 07/10/90

Analysis Requested: Purgeable aromatics in water.

Parameter	Concentration	Units
-----	-----	-----
Benzene	22100 (100)	ug/l
Toluene	23800 (100)	ug/l
Ethylbenzene	1020 (100)	ug/l
m/p-Xylene	2520 (100)	ug/l
o-Xylene	1850 (100)	ug/l
1,4-Dichlorobenzene	ND (100)	ug/l
1,3-Dichlorobenzene	ND (100)	ug/l
1,2-Dichlorobenzene	ND (100)	ug/l
Chlorobenzene	ND (100)	ug/l

Method:

8020 Aromatic Volatile Organics, SW-846, USEPA (1982).
602 Purgeable Aromatics, 40 CFR, Part 136.

Surrogate recovery, 99%.

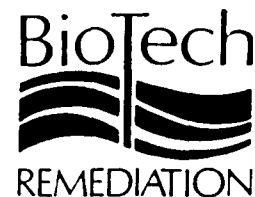
(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer
Senior Chemist

SPACER SHEET

QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO



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PREPARED FOR THE
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN. PROJECT MANAGER

NOVEMBER 21, 1995

BY
BIOTECH REMEDIATION INC.
710 EAST 20TH ST., SUITE 400
FARMINGTON, NEW MEXICO 87401

PREPARED BY:

Ross Kennemer
ROSS KENNEMER
PROJECT SCIENTIST/MANAGER

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1.0 INTRODUCTION

In compliance with Ground Water Discharge Plan GW-55 and pursuant to the requirements of the New Mexico Oil Conservation Division (NMOCD), BioTech Remediation, Inc., (BioTech) on behalf of Thriftway Marketing Corporation (Thriftway), submits this monitoring and sampling update report.

Included in this report is a description of the field sampling and measurement activities, results of the laboratory analytical testing and free-phase product removal data for the November 1995 Quarterly Monitoring event. Additionally, an update of the ground water treatment facility is also provided.

2.0 QUARTERLY MONITORING FIELD ACTIVITIES

On November 11, 1995, BioTech personnel initiated and completed the November Quarterly Monitoring. All measurement and sampling tasks were performed in a manner which strictly followed those detailed in previous reports.

Summaries of the ground water measurement data, phase-separated product measurements and laboratory analysis data are provided in Table 1, 2 and 3, respectively. Copies of Laboratory Reports, QA/QC Documentation and Chain of Custody Records are provided in Appendix A.

3.0 GROUND WATER TREATMENT EQUIPMENT PERFORMANCE

On November 10, 1995, the air stripper, used to reduce hydrocarbon contamination in the ground water, was returned to service. As detailed in the previous Quarterly Monitoring Report,

several new components were added to the system to enhance overall performance and reduce system down time.

As indicated from laboratory analysis of the stripper effluent, the system is performing well. BioTech is pleased to report that the system is reducing BTEX components by as much as 99%. Currently 8.5 GPM of water is being discharged from the stripper to the infiltration gallery. It is expected that this rate will be altered in the future in order to maximize the effectiveness of the system.

It is BioTech's intention to collect both influent and effluent samples for laboratory analysis on a monthly basis in order to monitor the performance of the system. Results of each analysis will be provided in the Quarterly Monitoring Reports.

A summary of the initial influent/effluent laboratory analysis is provided in Table 3. Copies of laboratory reports and Chain of Custody Records are provided in Appendix A.

4.0 FREE PHASE SEPARATED PRODUCT RECOVERY

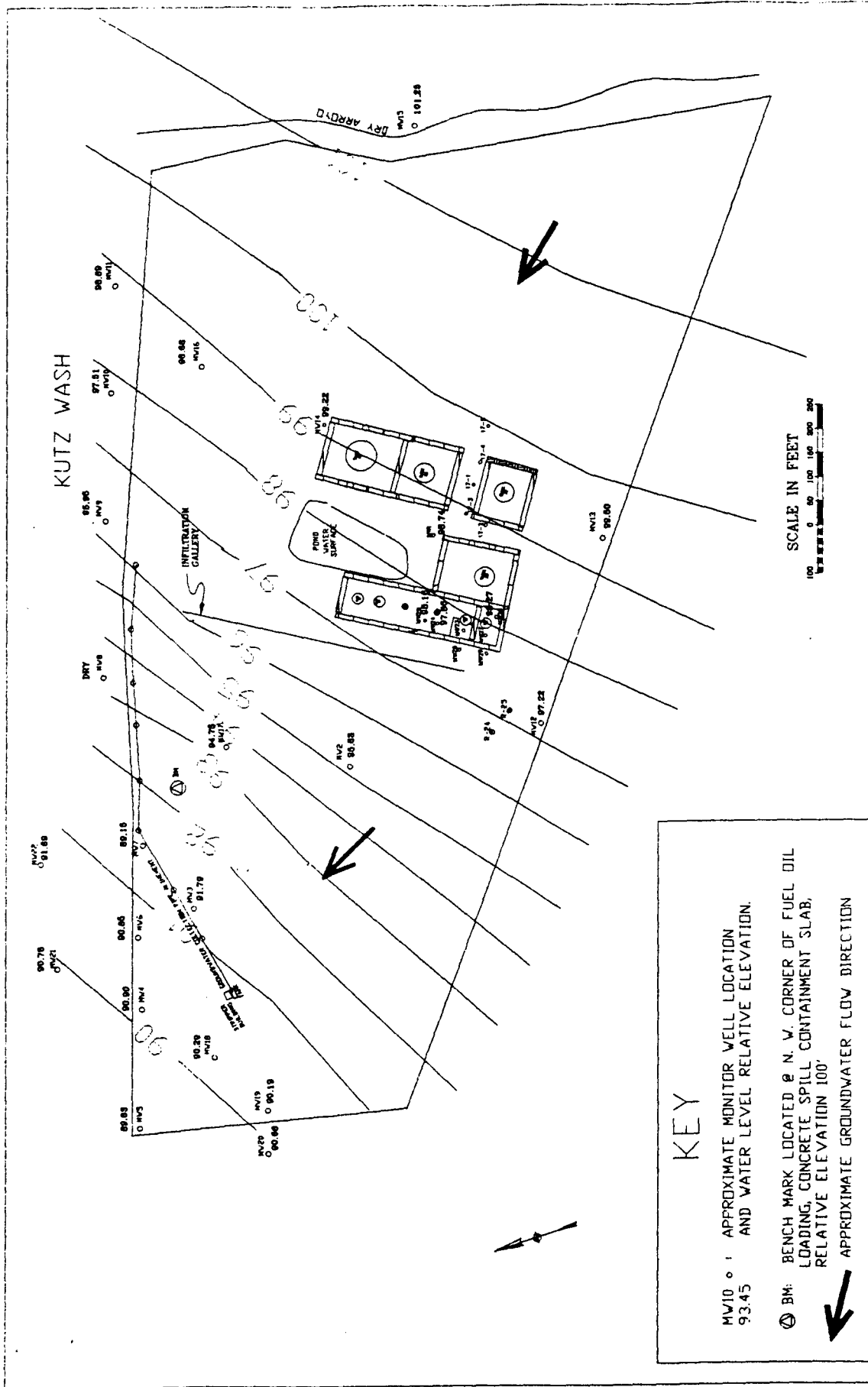
In addition to the regular scheduled product bailing during each monitoring event, BioTech has initiated a bi-monthly bailing schedule for selected monitoring wells. Well selection is based on current production. As needed wells will be added or removed from the list.

Product bailing logs will be provided in each monitoring report. The logs documenting the wells which have been bailed and the volume of product removed since the initiation of this program are provided in Appendix 2.

5.0 DISCUSSION

Presently, no significant changes have occurred in reported data from previous monitoring events. However, BioTech is confident that the return to service of the air stripper will provide positive results in the future. The expected draw down and subsequent mounding of the local ground water will carefully be evaluated and discussed in the next Quarterly Monitoring Report. Additionally, based on these results, projections regarding future operations will be attempted.

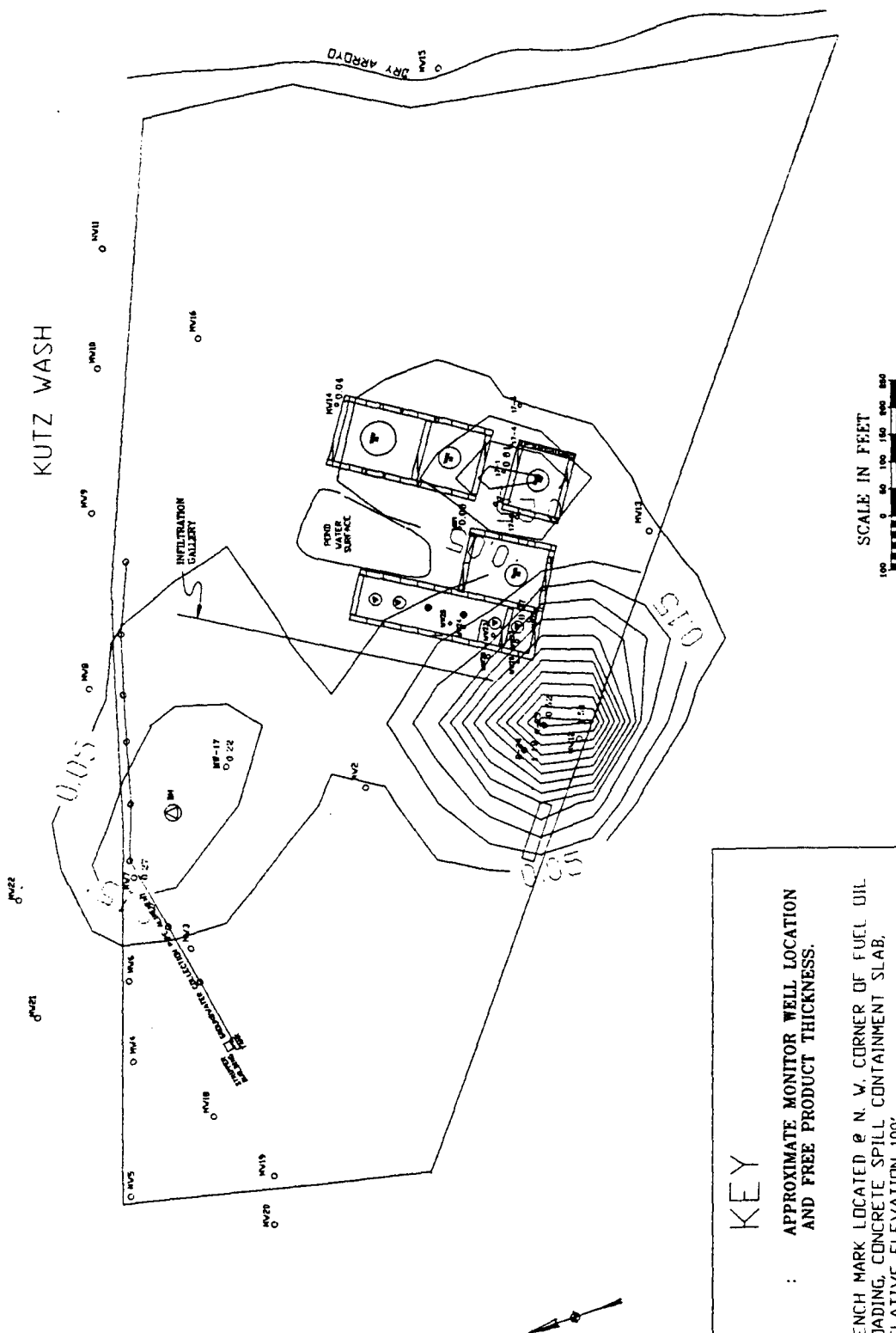
FIGURES



710 EAST 20TH STREET, SUITE 400
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KUTZ WASH



KEY

- MW-20 : APPROXIMATE MONITOR WELL LOCATION AND FREE PRODUCT THICKNESS.
- BM: BENCH MARK LOCATED @ N. W. CORNER OF FUEL OIL LOADING, CONCRETE SPILL CONTAINMENT SLAB, RELATIVE ELEVATION 100'

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

810NFP111295.SKD

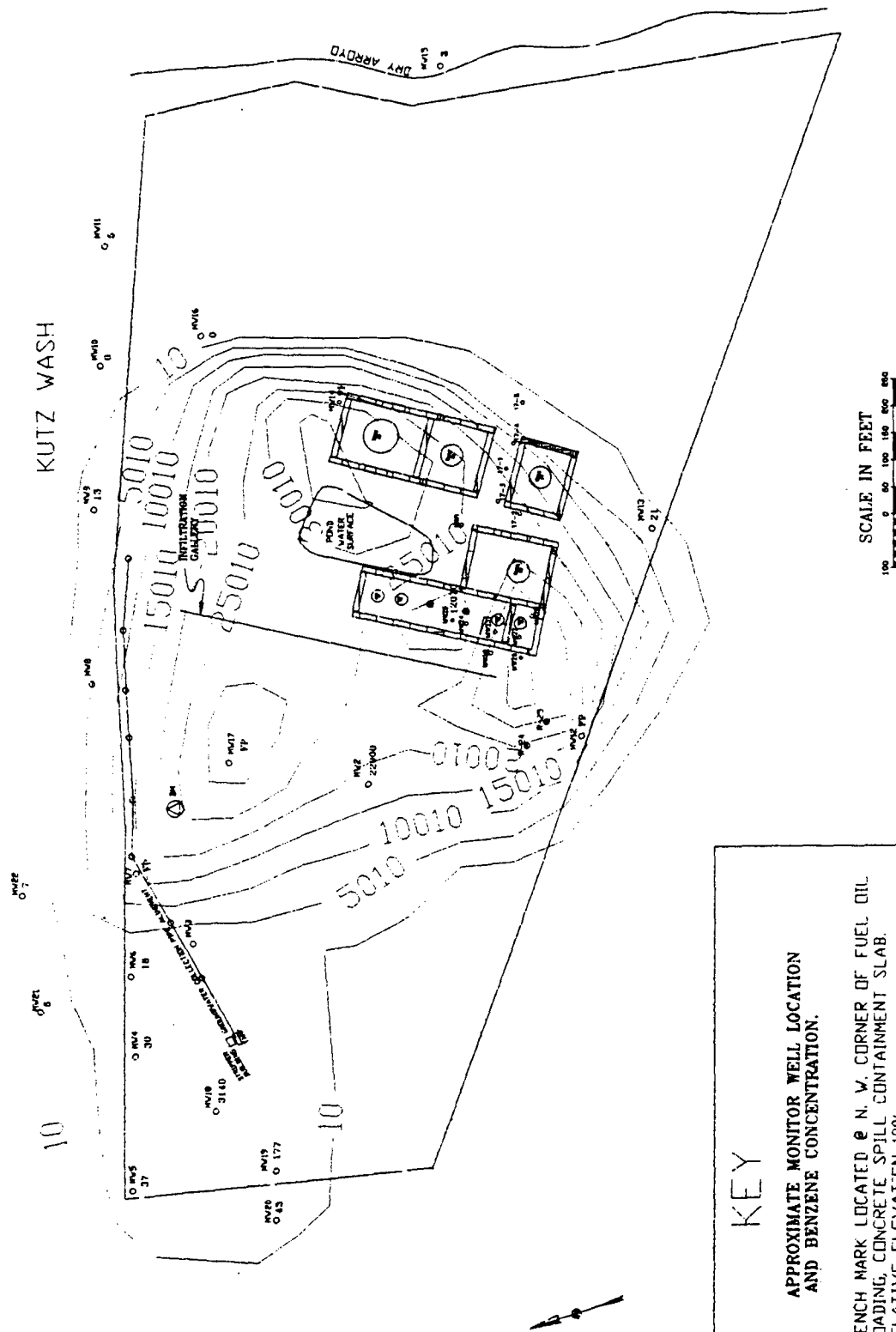
ENGINEER: R. KENNEMER
DRAWN BY: K. SINKS

FIG. 2 FREE
PRODUCT MAP

NOVEMBER 12, 1995

BioTech
REMEDICATION

710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
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KEY

MW-200: APPROXIMATE MONITOR WELL LOCATION AND BENZENE CONCENTRATION.

PM: BENCH MARK LOCATED @ N. W. CORNER OF FUEL OIL LOADING, CONCRETE SPILL CONTAINMENT SLAB. RELATIVE ELEVATION 100'

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

810\KZ111295.SKD

ENGINEER: R. KENNEMER
DRAWN BY: K. SINKS
FIG. 3: BENZENE
CONTOUR MAP
NOVEMBER 12, 1995



710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
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TABLES

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
1	114.08	11/29/93	09:30	13.51	100.57
		02/11/94	16:15	12.97	101.11
		06/14/94	14:50	13.70	100.38
		09/20/94	10:55	14.60	99.48
		01/20/95	11:21	16.08	98.00
		04/19/95	10:10	15.52	98.56
		08/24/95	18:30	16.1	97.98
		11/12/95	11:55	15.41	98.67
2	107.62	11/29/93	15:33	10.23	97.39
		02/11/94	14:10	9.91	97.71
		06/14/94	13:30	10.59	97.03
		09/20/94	09:25	11.43	96.19
		01/20/95	13:39	11.73	95.89
		04/12/95	10:10	11.57	96.05
		08/24/95	17:25	11.80	95.82
		11/12/95	10:00	11.99	95.63
3	96.28	11/30/93	10:10	1.72	94.56
		02/11/94	11:25	1.27	95.01
		06/14/94	14:05	2.40	93.88
		09/19/94	15:25	3.93	92.35
		01/20/95	12:10	4.75	91.53
		04/12/95	08:36	5.21	91.07
		08/24/95	17:00	4.33	91.95
		11/12/95	10:20	4.49	91.79
4	95.82	11/30/93	09:55	3.15	92.67
		02/11/94	10:55	2.93	92.89
		06/14/94	14:00	3.85	91.97
		09/19/94	16:05	4.55	91.27
		01/17/95	16:09	4.77	91.05
		04/11/95	16:30	4.62	91.20
		08/28/95	16:45	5.13	90.69
		11/12/95	10:40	4.92	90.90
5	94.66	11/30/93	09:38	3.73	90.93
		02/11/94	10:20	3.44	91.22
		06/14/94	13:45	4.13	90.53
		09/19/94	15:55	4.79	89.87
		01/17/95	15:47	4.54	90.12
		04/11/95	15:40	4.33	90.33
		08/28/95	16:20	5.25	89.41
		11/12/95	09:40	5.03	89.63

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
6	96.31	11/29/93	04:25	2.03	94.28
		02/11/94	11:00	1.91	94.40
		06/14/94	15:00	2.89	93.42
		09/19/94	16:15	4.03	92.28
		01/20/95	12:45	4.65	91.66
		04/12/95	12:45	4.72	91.59
		08/24/95	16:50	4.59	91.72
		11/12/95	10:50	5.46	90.85
7	96.79	11/29/93	04:10	4.70	92.09
		02/11/94	11:35	4.36	92.43
		06/14/94	14:10	5.63	91.16
		09/19/94	16:25	7.21	89.58
		01/20/95	13:11	7.60	89.19
		04/12/95	09:30	8.09	88.70
		08/24/95	17:10	7.82	88.97
		11/12/95	10:55	8.11	88.68
8	97.04	11/29/93	03:00	1.54	95.50
		02/11/94	09:00	1.17	95.87
		06/14/94	11:30	3.09	93.95
		09/19/94	14:30	3.42	93.62
		01/17/95	13:17	3.00	94.04
		04/11/95	13:21	3.00	94.04
		08/24/95		DRY	DRY
		11/12/95	1350	DRY	DRY
9	100.16	11/29/93	03:15	2.83	97.33
		02/10/94	15:57	2.62	97.54
		06/14/94	11:15	3.85	96.31
		09/19/94	14:20	4.37	95.79
		01/17/95	12:53	4.20	95.96
		04/11/95	13:02	4.20	95.96
		08/24/95	10:35	4.47	95.69
		11/12/95	13:40	4.21	95.95
10	101.55	11/29/93	02:40	3.11	97.05
		02/10/94	15:55	2.31	99.24
		06/14/94	11:00	3.78	97.77
		09/19/94	13:45	4.51	97.04
		01/17/95	12:16	4.09	97.46
		04/11/95	11:32	4.05	97.50
		08/24/95	10:30	4.31	97.24
		11/12/95	14:00	4.04	97.51

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
11	103.63	11/29/93	02:30	4.41	99.22
		02/10/94	15:50	4.16	99.47
		06/14/94	10:30	4.87	98.76
		09/19/94	13:55	5.09	98.54
		01/17/95	10:30	4.83	98.80
		04/11/95	11:51	4.75	98.88
		08/24/95	10:15	5.16	98.47
		11/12/95	14:15	4.94	98.69
12	111.11	11/29/93	08:30	14.12	96.99
		02/14/94	14:30	11.99	99.12
		06/14/94	15:40	14.01	97.10
		09/20/94	11:45	15.25	95.86
		01/20/95	15:57	15.18	95.93
		04/19/95	09:15	13.41	97.70
		08/24/95	12:00	15.13	95.98
		11/12/95	12:45	15.17	95.94
13	117.12	11/29/93	09:15	16.41	100.71
		02/10/94	15:15	16.17	100.95
		06/14/94	10:00	16.46	100.66
		09/19/94	11:45	17.05	100.07
		01/20/95	10:37	17.30	99.82
		04/11/95	10:30	17.15	99.97
		08/24/95	15:10	17.47	99.65
		11/12/95	12:35	17.62	99.50
14	111.94	11/29/93	10:15	12.74	99.20
		02/14/94	16:00	11.22	100.72
		06/15/94	09:10	12.71	99.23
		09/20/94	11:30	13.32	98.62
		01/20/95	15:01	12.59	99.35
		04/19/95	15:01	12.23	99.71
		08/24/95	12:15	12.66	99.28
		11/12/95	12:05	12.75	99.19
15	114.53	11/29/93	02:20	13.05	101.48
		02/10/94	15:45	12.89	101.64
		06/14/94	10:45	12.81	101.72
		09/19/94	14:10	13.15	101.38
		01/17/95	11:50	13.17	101.36
		04/11/95	12:35	12.96	101.57
		08/24/95	10:00	13.35	101.18
		11/12/95	14:30	13.28	101.25

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
16	107.64	11/29/93	02:00	8.26	99.38
		02/10/94	15:30	8.03	99.61
		06/14/94	10:15	8.51	99.13
		09/19/94	12:00	8.92	98.72
		01/20/95	11:03	8.78	98.86
		04/11/95	10:55	8.69	98.95
		08/24/95	15:35	9.03	98.61
		11/12/95	12:15	8.96	98.68
17	100.84	11/29/93	03:50	4.11	96.73
		02/11/94	14:25	3.90	96.94
		06/14/94	14:12	5.01	95.83
		09/20/94	11:15	6.11	94.73
		01/20/95	14:22	6.10	94.74
		04/19/95	09:45	5.85	94.99
		08/24/95	17:00	6.39	94.45
		11/12/95	11:05	6.27	94.57
18	94.04	11/30/93	10:25	2.20	91.84
		02/11/94	10:10	1.75	92.29
		06/14/94	15:10	2.60	91.44
		09/19/94	15:45	3.29	90.75
		01/17/95	15:25	3.64	90.40
		04/11/95	16:00	3.54	90.50
		08/24/95	16:10	3.85	90.19
		11/12/95	08:50	3.75	90.29
19	93.64	11/30/93	09:20	2.25	91.39
		02/11/94	10:00	2.09	91.55
		06/14/94	13:40	2.55	91.09
		09/19/94	15:35	3.14	90.50
		01/17/95	15:04	3.02	90.62
		04/11/95	15:20	2.89	90.75
		08/24/95	16:05	3.59	90.05
		11/12/95	09:30	3.45	90.19
20	96.11	11/30/93	08:25	4.42	91.69
		02/10/94	16:17	4.30	91.81
		06/14/94	15:30	4.64	91.47
		09/19/94	14:45	5.15	90.96
		01/17/95	13:45	4.99	91.12
		04/11/95	13:52	4.81	91.30
		08/24/95	11:35	5.52	90.59
		11/12/95	08:40	5.45	90.66

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
21	94.34	11/30/93	08:45	1.90	92.44
		02/10/94	16:25	1.92	92.42
		06/14/94	15:15	2.64	91.70
		09/19/94	14:55	3.38	90.96
		01/17/95	14:08	3.09	91.25
		04/11/95	14:31	3.02	91.32
		08/24/95	11:20	3.83	90.51
		11/12/95	08:55	3.56	90.78
22	97.51	11/30/93	08:35	4.09	93.42
		02/10/94	16:25	3.75	93.76
		06/14/94	15:20	4.96	92.55
		09/19/94	15:05	5.69	91.82
		01/17/95	14:26	5.31	92.20
		04/11/95	14:17	5.29	92.22
		08/24/95	11:10	6.24	91.27
		11/12/95	09:10	5.82	91.69
23	115.77	09/20/94	11:50	13.82	101.95
		01/20/95	15:19	DRY	
		04/19/95	11:30	DRY	115.77
		08/24/95		DRY	DRY
		11/12/95	13:10	DRY	DRY
24	116.17	09/20/94	11:52	17.30	98.87
		01/20/95	15:16	17.83	98.34
		04/12/95	11:50	17.45	98.72
		08/24/95	17:45	17.84	98.33
		11/12/95	13:15	18.31	97.86
25	112.62	02/14/94	15:00	8.01	104.61
		06/14/94	16:04	9.58	103.04
		09/20/94	11:00	11.15	101.47
		01/20/95	15:15	13.78	98.84
		04/12/95	11:40	12.00	100.62
		08/24/95	18:10	11.94	100.68
		11/12/95	13:25	14.46	98.16

Table 1
Thriftway Refinery, Bloomfield, NM
Groundwater Monitoring Data

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)
26	112.36	09/20/94	11:52	14.15	98.21
		01/20/95	15:46	14.30	98.06
		04/19/95	11:45	14.00	98.36
		08/24/95	18:30	14.32	98.04
		11/12/95		DESTROYED	
28	113.06	09/20/94	11:54	13.62	99.44
		01/20/95	15:22	14.71	98.35
		04/19/95	11:40	14.46	98.60
		08/24/95	18:45	14.91	98.15
		11/12/95	13:05	DRY	DRY
		08/24/95	18:55	14.65	97.26
		11/12/95	12:55	14.85	97.06
810\QMRTABL1.WK4					

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
MW-1	01/20/95	1.71	2	2
	04/12/95	1.83	1	3
	08/24/95	1.47	2	5
	11/12/95	0.08	1.3	6.3
MW-12	09/14/93	2.00	NOT BAILED	
	11/29/93	1.97	6.5	6.5
	02/14/94	0.47	1.8	8.3
	03/23/94	0.06	0	8.3
	04/27/94	0.42	2.4	10.7
	05/17/94	0.83	6.4	17.1
	06/01/94	1.08	4.8	21.9
	06/15/94	1.87	6.4	28.3
	08/22/94	1.50	4	32.3
	09/20/94	3.17	12	44.3
	01/20/95	1.96	20	64.3
	04/12/95	1.81	4	68.3
	05/03/95	1.70	4	72.3
	06/19/95	1.90	3	75.3
	06/26/95	1.40	2	77.3
	08/24/95	1.69	4	81.3
	11/12/95	1.54	3.8	85.1
MW-14	09/14/93	0.50	0	
	11/29/93	1.49	4.8	4.8
	02/14/94	0.95	2.8	7.6
	03/23/94	--	0	7.6
	04/27/94	--	0	7.6
	05/17/94	--	0	7.6
	06/01/94	--	0	7.6
	06/15/94	1.30	1.6	9.2
	08/22/94	--	0	9.2
	09/20/94	1.18	1.5	10.7
	01/20/95	0.27	0.2	10.9
	04/12/95	0.42	0.3	11.2
	08/24/95	0.20	0	11.2
	11/12/95	0.04	0	11.2
MW-17	09/20/94	0.25	4	4
	01/20/95	0.27	4.5	8.5
	04/12/95	0.23	3	11.5
	08/24/95	0.39	5.7	17.2
	11/12/95	0.22	0	17.2
MW-23	06/01/94	0.00	0	0
	06/15/94	1.17	1.6	1.6
	08/22/94	1.71	1.8	3.4
	09/20/94	0.00	0	3.4
	01/20/95	DRY	0	3.4
	04/12/95	0.03	0	3.4
	08/24/95	0.25	0	3.4
	11/12/95	DRY	0	3.4

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
MW-26	02/14/94	0.00	0	
	03/23/94	0.50	1.6	1.6
	04/27/94	1.00	8	9.6
	05/17/94	1.00	8	17.6
	06/01/94	1.17	9.6	27.2
	06/15/94	0.74	3.2	30.4
	08/22/94	1.12	2	32.4
	09/20/94	0.08	0	32.4
	01/20/95	T	0	32.4
	04/12/95	0.06	0	32.4
	08/24/95	0.02	0	32.4
	11/12/95	DESTROYED	0	32.4
MW-27	02/14/94	0.00	0	0
	03/23/94	1.33	5.6	5.6
	04/27/94	1.00	8	13.6
	05/17/94	1.33	8.8	22.4
	06/01/94	1.67	8	30.4
	06/15/94	1.43	1.6	32
	08/22/94	0.00	0	32
	09/20/94	0.00	0	32
	01/20/95	DRY	0	32
	08/24/95	DRY	0	32
	11/12/95	DRY	0	32
MW-28	02/14/94	0.00	0	
	03/23/94	1.00	2.4	2.4
	04/27/94	0.83	4	6.4
	05/17/94	0.33	4.8	11.2
	06/01/94	0.42	3.2	14.4
	06/15/94	0.50	3.2	17.6
	08/22/94	0.83	4	21.6
	09/20/94	0.00	0	21.6
	01/20/95	0.00	0	21.6
	04/12/95	0.17	0	21.6
	08/24/95	0.23	1.8	23.4
	11/12/95	0.07	0	23.4
MW-29	02/14/94	0.00	0	0
	03/23/94	0.08	0	0
	04/27/94	0.25	3.2	3.2
	05/17/94	0.25	3.2	6.4
	06/01/94	0.50	6.4	12.8
	06/15/94	2.36	4.8	17.6
	08/22/94	1.17	1.8	19.4
	09/20/94	1.10	1.8	21.2
	01/20/95	0.78	1.2	22.4
	04/12/95	1.09	0.5	22.9
	08/24/95	0.72	2.7	25.6
	11/12/95	0.78	1.3	26.9

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
T17-1	06/15/94	1.62	8	8
	01/20/95	0.80	4	12
	04/12/95	1.20	4	16
	08/24/95	0.93	2	18
	11/12/95	0.61	6	24
T17-4	06/15/94	1.13	*	
	01/20/95	1.57	*	
	04/12/95	1.22	*	
	08/24/95	REMOVED		
T17-5	06/15/94	0.84	3.2	3.2
	01/20/95	1.45	6	9.2
	04/12/95	dry	0	9.2
	08/24/95	REMOVED		9.2
R-1	03/23/94	0.75	8	8
	04/27/94	1.17	8	16
	05/17/94	0.75	5.6	21.6
	06/01/94	0.83	4.8	26.4
	06/15/94	1.25	6.4	32.8
	08/22/94	0.83	8	40.8
	09/20/94	0.12	1.5	42.3
	01/20/95	T	0	42.3
	04/12/95	T	0	42.3
	08/24/95	DRY	0	42.3
	11/12/95	REMOVED		
R-3	03/23/94	1.00	12.8	12.8
	04/27/94	2.08	14.4	27.2
	05/17/94	1.00	6.4	33.6
	06/01/94	1.17	6.4	40
	06/15/94	0.42	8	48
	08/22/94	1.00	9	57
	09/20/94	0.33	1.5	58.5
	01/20/95	T	0	58.5
	04/12/95	T	0	58.5
	08/24/95	DRY	0	58.5
	11/12/95	REMOVED		
R-8	03/23/94	1.50	36.8	36.8
	04/27/94	0.33	3.2	40
	05/17/94	1.33	14.4	54.4
	06/01/94	1.50	19.2	73.6
	06/15/94	1.33	16	89.6
	08/22/94	2.75	20	109.6
	09/20/94	1.50	12	121.6
	01/20/95	T	0	121.6
	04/12/95	T	0	121.6
	08/24/95	DRY	0	121.6
	11/12/95	REMOVED		

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
R-9	03/23/94	2.17	20	20
	04/27/94	2.25	20	40
	05/17/94	2.42	20	60
	06/01/94	2.42	20	80
	06/15/94	2.42	20	100
	08/22/94	0.00	0	100
	09/20/94	0.25	2	102
	01/20/95	T	0	102
	04/12/95	T	0	102
	08/24/95	DRY	0	102
	11/12/95	REMOVED		
R-12	03/23/94	2.25	20	20
	04/27/94	2.33	20	40
	05/17/94	2.33	20	60
	06/01/94	2.67	20	80
	06/15/94	2.50	20	100
	08/22/94	2.67	20	120
	09/20/94	1.17	9	129
	01/20/95	T	0	129
	04/12/95	T	0	129
	08/24/95	DRY	0	129
	11/12/95	REMOVED		
R-13	03/23/94	2.04	20	20
	04/27/94	2.42	20	40
	05/17/94	2.42	20	60
	06/01/94	2.50	20	80
	06/15/94	2.67	20	100
	08/22/94	0.75	8	108
	09/20/94	0.12	1.5	109.5
	01/20/95	T	0	109.5
	04/12/95	T	0	109.5
	08/24/95	DRY	0	109.5
	11/12/95	REMOVED		
R-14	03/23/94	2.12	20	20
	04/27/94	2.33	20	40
	05/17/94	2.50	20	60
	06/01/94	2.67	20	80
	06/15/94	2.67	20	100
	08/22/94	0.25	3	103
	09/20/94	0.12	0	103
	01/20/95	T	0	103
	04/12/95	T	0	103
	08/24/95	DRY	0	103
	11/12/95	REMOVED		

TABLE 2
SUMMARY OF PHASE SEPARATED PRODUCT MEASUREMENTS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

WELL	DATE	THICKNESS (in feet)	LITERS OF HYDROCARBON REMOVED	ACCUM. Liters
R-24	01/20/95	0.80	360	360
	03/14/95	0.82	4	364
	03/23/95		1	365
	04/12/95	0.75	7	372
	05/03/95	0.60	2	374
	06/19/95	0.40	2	376
	06/26/95	0.40	1	377
	08/25/95	0.00	0	377
	11/12/95	1.19	7.6	384.6
R-25	01/20/95	0.90	100	100
	03/14/95	1.18	16	116
	03/23/95		6	122
	04/12/95	1.00	18	140
	05/03/95	0.95	4.3	144.3
	06/19/95	0.9	8	152.3
	06/26/95	0.9	6	158.3
	08/25/95	0	0	158.3
	11/12/95	0.52	7.5	165.8
STRIPPER TANK	01/20/95		800	800
	03/03/95		640	1440
	03/31/95		640	2080
	04/21/95		320	2400
	05/08/95		800	3200
	05/10/95		1200	4400
	05/24/95		600	5000
	05/31/95		600	5600
	06/09/95		400	6000
	06/16/95		400	6400
	08/25/95		0	6400
	11/12/95		300	6700
TOTAL THIS QUARTER				
TOTAL TO DATE				8,187.4

ND - NON-DETECT (no visible product detected in the bailer)

* - Couldn't get the bailer down the well.

** - Pumped with a down hole bladder pump.

810\QMRTABL2

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-1	11/29/93	TRACE				
	02/11/94	7.1210	0.0630	0.2270	0.5970	
	06/22/94	0.0600	0.0240	0.5800	0.1206	1.6280
	09/20/94	9.8510	0.0105	0.2140	0.8960	0.3820
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-2	11/29/93	2.1150	0.1360	0.3950	0.5830	
	02/11/94	3.4780	0.0630	0.5810	0.7860	
	06/22/94	1.0700	0.0239	0.0139	0.4732	0.1380
	09/20/94	3.0050	0.0380	0.3690	0.5096	0.0880
	01/20/95	1.5810	0.0159	0.3950	0.5317	0.0830
	04/12/95	3.0500	0.1700	0.6360	0.8731	0.2290
	08/24/95	2.0730	0.0550	0.3910	0.4471	0.3190
	11/12/95	2.2900	0.0980	0.5360	0.5660	0.3340
MW-3	11/30/93	ND	ND	0.0011	0.0007	
	02/11/94	ND	ND	ND	ND	
	06/22/94	0.0128	ND	ND	0.0011	0.0236
	09/19/94	0.0730	0.0009	0.0006	0.0023	0.0390
	01/20/95	0.0262	0.0010	0.0048	0.0042	0.1110
	04/12/95	0.1240	0.0004	0.0082	0.0044	0.2010
	08/24/95	0.0106	0.0024	ND	0.0017	0.2130
	11/12/95	0.0028	0.0018	ND	0.0016	0.2640
MW-4	11/30/93	0.1000	0.0053	0.0013	0.0035	
	02/11/94	1.1270	0.0100	0.0310	0.0990	
	06/22/94	0.0226	0.0040	0.0003	0.0024	0.0283
	09/19/94	0.0640	0.0055	0.0008	0.0068	0.0570
	01/17/95	0.3910	0.0082	0.0290	0.2040	0.0530
	04/11/95	0.4290	0.0052	0.0112	0.0104	0.0468
	08/24/95	0.0051	0.0049	0.0012	0.0065	0.0309
	11/12/95	0.0030	0.0050	0.0009	0.0068	0.0350
MW-5	11/30/93	0.0011	ND	ND	ND	
	02/11/94	0.0060	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0312
	09/19/94	0.0030	ND	0.0004	0.0011	0.0412
	01/17/95	0.0028	ND	ND	ND	0.0550
	04/11/95	0.0031	ND	ND	ND	0.0657
	08/24/95	ND	ND	0.0002	0.0010	0.0477
	11/12/95	0.0037	0.0004	0.0008	0.0011	0.0458

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-6	11/29/93	0.0082	0.0020	0.0022	0.0019	
	02/11/94	0.0230	0.0170	0.0150	0.0720	
	06/22/94	0.2340	0.0016	0.0337	0.0015	0.0338
	09/19/94	0.0560	0.0047	0.0028	0.0067	0.0418
	01/20/95	0.0009	0.0050	0.0014	0.0054	0.0195
	04/12/95	0.0270	0.0181	0.0026	0.0102	0.0211
	08/24/95	0.0029	0.0013	0.0002	0.0016	0.0266
	11/12/95	0.0018	0.0021	0.0006	0.0012	0.0280
MW-7	11/29/93	3.5410	0.9710	0.4190	1.9180	
	02/11/94	14.3990	2.0620	0.6300	4.1270	
	06/22/94	4.0830	0.6950	0.3010	1.7170	0.0670
	09/19/94	4.0860	0.2550	0.2110	0.5650	0.0890
	01/20/95	0.1760	0.1250	0.0500	0.4330	0.0680
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-8	11/29/93	0.0034	ND	0.0004	0.0010	
	02/11/94	0.0010	0.0007	0.0003	0.0010	
	06/14/94	0.0018	0.0004	ND	ND	0.0470
	09/19/94	0.0045	0.0005	ND	0.0003	0.0650
	01/17/95	0.0022	0.0004	ND	0.0003	0.0750
	04/11/95	0.0013	ND	0.0003	0.0017	0.0876
	08/24/95	DRY				
	11/12/95	DRY				
MW-9	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	0.0156
	09/19/94	0.2210	0.0005	ND	ND	0.0510
	01/17/95	0.0483	ND	ND	ND	0.0469
	04/11/95	0.0558	ND	0.0003	0.0005	0.0400
	08/24/95	0.0710	ND	ND	0.0005	0.0710
	11/12/95	0.0013	0.0082	0.0020	0.0136	0.0358
MW-10	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	0.0003
	01/17/95	ND	ND	ND	ND	0.0003
	04/11/95	0.0015	ND	ND	0.0003	ND
	08/24/95	0.0042	0.0020	0.0051	0.0141	0.0011
	11/12/95	ND	0.0026	0.0006	0.0051	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-11	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	0.0002	0.0005	ND
	08/24/95	0.0017	ND	0.0008	0.0024	ND
	11/12/95	0.0005	0.0017	0.0005	0.0042	ND
MW-12	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/17/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-13	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	ND
	06/14/94	ND	ND	ND	0.0005	ND
	09/19/94	ND	ND	ND	0.0002	ND
	01/20/95	ND	ND	ND	0.0002	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	ND	0.0003
	11/12/95	0.0021	0.0060	0.0024	0.0209	ND
MW-14	11/29/93	FREE PRODUCT FOUND IN WELL				
	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-15	11/29/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	0.0005	ND
	11/12/95	0.0003	0.0027	0.0004	0.0032	ND

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-16	11/29/93	ND	ND	0.0024	0.0006	
	02/11/94	ND	ND	0.0050	0.0010	
	06/14/94	ND	ND	0.0027	0.0003	ND
	09/19/94	ND	0.0003	0.0006	0.0009	ND
	01/20/95	ND	ND	0.0005	0.0005	0.0003
	04/11/95	ND	ND	0.0003	0.0008	ND
	08/24/95	ND	ND	0.0007	0.0016	ND
	11/12/95	ND	0.0005	0.0019	0.0127	ND
MW-17	11/29/93	21.2720	5.2850	1.0630	8.3570	
	02/11/94	61.5850	25.4200	1.6580	12.7870	
	06/22/94	21.6100	15.5510	0.8480	7.7600	0.0900
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
MW-18	11/30/93	0.1400	0.0088	0.0153	0.1330	
	02/11/94	0.3610	0.0090	0.0250	0.2450	
	06/22/94	0.0020	ND	ND	ND	0.0335
	09/19/94	0.4090	0.0042	0.0375	0.2406	0.0470
	01/17/95	0.0920	0.0032	0.0131	0.0957	0.0433
	04/11/95	0.0766	0.0014	0.0041	0.0122	0.0300
	08/24/95	0.1780	0.0030	0.0155	0.0098	0.0357
	11/12/95	0.3140	0.0062	0.0326	0.1667	0.0337
MW-19	11/30/93	0.0245	0.0118	0.2580	0.6582	
	02/11/94	0.0580	0.0200	0.5450	1.4580	
	06/22/94	0.0058	0.0069	0.0112	0.0491	0.0246
	09/19/94	0.0620	0.0040	0.1960	0.4992	0.0433
	01/17/95	0.0083	0.0037	0.1460	0.3364	0.0159
	04/11/95	0.0055	0.0016	0.1390	0.3020	0.0079
	08/24/95	0.0074	0.0027	0.0680	0.1251	0.0320
	11/12/95	0.0177	0.0060	0.2010	0.3520	0.0630
MW-20	11/30/93	0.0277	0.0165	0.1300	0.5551	
	02/11/94	0.0380	0.0220	0.0840	0.3500	
	06/22/94	0.0104	0.0111	0.0122	0.0207	0.1090
	09/19/94	0.0245	0.0176	0.0100	0.0327	0.1120
	01/17/95	0.0065	0.0173	0.0211	0.0600	0.1090
	04/11/95	0.0016	0.0058	0.0021	0.0120	0.1370
	08/24/95	0.0003	0.0067	0.0023	0.0106	0.1040
	11/12/95	0.0043	0.0152	0.0059	0.0089	0.1390

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-21	11/30/93	0.0171	0.0046	0.0050	0.0023	
	02/11/94	0.0820	0.0090	0.0260	0.0060	
	06/22/94	0.0173	0.0025	0.0019	0.0019	0.0451
	09/19/94	0.0014	0.0032	0.0009	0.0008	0.0418
	01/17/95	0.0510	0.0080	0.0410	0.0663	0.0392
	04/11/95	0.0034	0.0012	0.0005	0.0016	0.0626
	08/24/95	0.0050	0.0006	0.0004	0.0010	0.0700
	11/12/95	0.0006	0.0007	ND	0.0007	0.0610
MW-22	11/30/93	ND	ND	ND	ND	
	02/11/94	ND	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0392
	09/19/94	ND	ND	ND	ND	0.0358
	01/17/95	ND	ND	ND	ND	0.0408
	04/11/95	ND	ND	ND	ND	0.0353
	08/24/95	ND	ND	ND	0.0004	0.0256
	11/12/95	0.0007	0.0008	0.0002	0.0008	0.0250
MW-23	02/11/94	198.5730	190.8910	7.2400	48.8370	
	06/22/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	DRY				
	04/12/95	DRY				
	08/24/95	DRY				
	11/12/95	DRY				
MW-25	11/29/93	2.3730	0.0112	0.1330	0.3454	
	02/11/94	7.3150	0.0700	0.1150	0.5880	
	06/22/94	NOT SAMPLED				
	09/20/94	5.0500	0.0377	0.0930	0.7360	0.1090
	01/20/95	NOT SAMPLED				
	04/12/95	0.2450	0.0015	0.0036	0.0233	0.0753
	08/24/95	1.6410	0.0153	0.1080	0.1610	0.1000
	11/12/95	1.2070	1.9790	0.3980	2.4700	0.0660
EFFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0021	0.0016	0.0013	0.0038	
	02/11/94	BLOWER SHUT DOWN				
	06/22/94	BLOWER SHUT DOWN				
	09/20/94	0.0093	0.0009	ND	0.0007	ND
	01/20/95	NOT SAMPLED				
	04/12/95	0.0975	0.3630	0.2780	2.6390	0.0075
	11/12/95	0.0339	0.0123	0.0089	0.0481	0.0032

TABLE 3
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
INFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0015	0.0009	0.0017	0.0023	
	02/11/94	0.0010	ND	ND	0.0040	
	06/22/94	PUMP SHUT DOWN				
	09/20/94	9.6700	0.7540	0.1580	0.6330	0.0500
	01/20/95	NOT SAMPLED				
	04/12/95	2.0600	0.9870	0.2460	1.6890	0.0245
NMWQCC	12/24/87	0.0100	0.7500	0.7500	0.6200	0.1000

ND - NON-DETECT

810\QMRTABL3

APPENDIX A

EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-2	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0909	ANALYSIS:	BTEX/MTBE

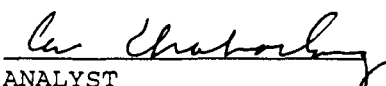
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	334	15.0
BENZENE	2290	10.0
TOLUENE	98	10.0
ETHYLBENZENE	536	10.0
P,M-XYLENE	500	15.0
O-XYLENE	66	15.0

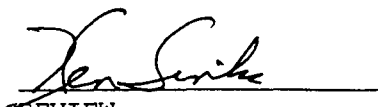
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	91	80 - 120%
	BROMOFLUOROBENZENE	102	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-2, Thriftway site #810.


ANALYST


REVIEW

EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-3	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0910	ANALYSIS:	BTEX/MTBE

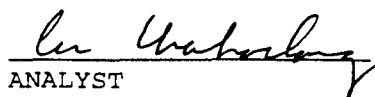
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	264	0.3
BENZENE	2.8	0.2
TOLUENE	1.8	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.7	0.3
O-XYLENE	0.9	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	90	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-3, Thriftway site #810.


ANALYST


REVIEW

EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-4	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0911	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	35.0	0.9
BENZENE	3.0	0.3
TOLUENE	5.0	0.4
ETHYLBENZENE	0.9	0.4
P,M-XYLENE	3.4	0.9
O-XYLENE	3.4	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	95	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-4, Thriftway site #810.

ANALYST

REVIEW

EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-5	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0907	ANALYSIS:	BTEX/MTBE

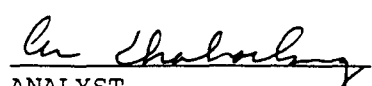
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	45.8	0.3
BENZENE	3.7	0.2
TOLUENE	0.4	0.2
ETHYLBENZENE	0.8	0.2
P,M-XYLENE	1.1	0.3
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	106	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-5, Thriftway site #810.


ANALYST


REVIEW

EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-6	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0912	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	28.0	0.9
BENZENE	1.8	0.3
TOLUENE	2.1	0.4
ETHYLBENZENE	0.6	0.4
P,M-XYLENE	1.2	0.9
O-XYLENE	ND	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	104	80 - 120%
	BROMOFLUOROBENZENE	109	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP,
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-6, Thriftway site #810.

ANALYST

REVIEW

EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-9	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0917	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	35.8	0.9
BENZENE	1.3	0.3
TOLUENE	8.2	0.4
ETHYLBENZENE	2.0	0.4
P,M-XYLENE	10.6	0.9
O-XYLENE	3	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	100	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-9, Thriftway site #810.

ANALYST

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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-10	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0918	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	ND	0.3
TOLUENE	2.6	0.4
ETHYLBENZENE	0.6	0.4
P,M-XYLENE	3.9	0.9
O-XYLENE	1.2	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	108	80 - 120%
	BROMOFLUOROBENZENE	103	80 - 120%

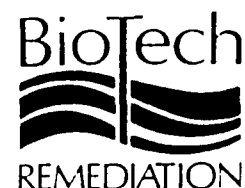
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-10, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-11	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0919	ANALYSIS:	BTEX/MTBE

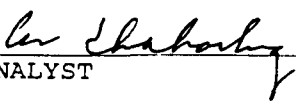
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	0.5	0.3
TOLUENE	1.7	0.4
ETHYLBENZENE	0.5	0.4
P,M-XYLENE	3.4	0.9
O-XYLENE	0.8	0.4

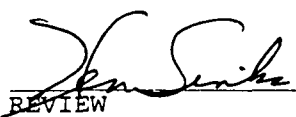
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	105	80 - 120%
	BROMOFLUOROBENZENE	104	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

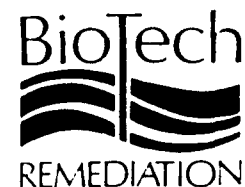
COMMENTS: Monitor Well MW-11, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-13	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0913	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	2.1	0.3
TOLUENE	6.0	0.4
ETHYLBENZENE	2.4	0.4
P,M-XYLENE	15.9	0.9
O-XYLENE	5.0	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	103	80 - 120%
	BROMOFLUOROBENZENE	105	80 - 120%

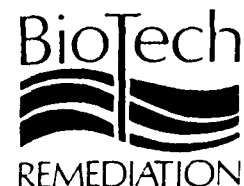
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-13, Thriftway site #810.

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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-15	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0920	ANALYSIS:	BTEX/MTBE

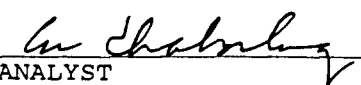
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	0.3	0.3
TOLUENE	2.7	0.4
ETHYLBENZENE	0.4	0.4
P,M-XYLENE	2.4	0.9
O-XYLENE	0.8	0.4

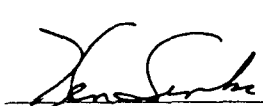
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	91	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

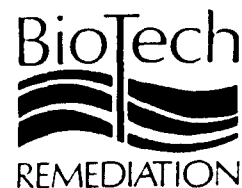
COMMENTS: Monitor Well MW-15, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-16	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0914	ANALYSIS:	BTEX/MTBE

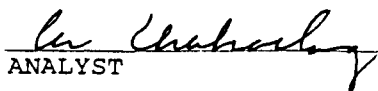
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	ND	0.3
TOLUENE	0.5	0.4
ETHYLBENZENE	1.9	0.4
P, M-XYLENE	9.7	0.9
O-XYLENE	3.0	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	106	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

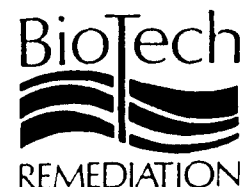
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-16, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-18	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0908	ANALYSIS:	BTEX/MTBE

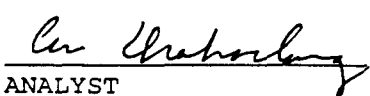
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	33.7	0.3
BENZENE	314	0.2
TOLUENE	6.2	0.2
ETHYLBENZENE	32.6	0.2
P,M-XYLENE	163	0.3
O-XYLENE	3.7	0.3

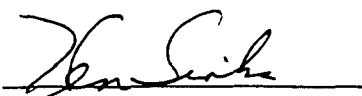
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	92	80 - 120%

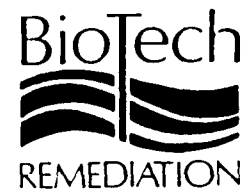
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME 1B, NOVEMBER 1990.

COMMENTS: Monitor Well MW-18, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-19	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0906	ANALYSIS:	BTEX/MTBE

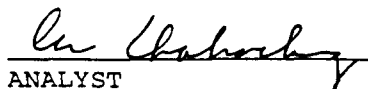
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	63	0.3
BENZENE	17.7	0.2
TOLUENE	6.0	0.2
ETHYLBENZENE	201	0.2
P,M-XYLENE	346	0.3
O-XYLENE	6.0	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	105	80 - 120%
	BROMOFLUOROBENZENE	95	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

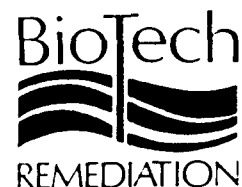
COMMENTS: Monitor Well MW-19, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-20	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0903	ANALYSIS:	BTEX/MTBE

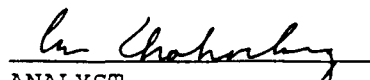
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	139	0.3
BENZENE	4.3	0.2
TOLUENE	15.2	0.2
ETHYLBENZENE	5.9	0.2
P,M-XYLENE	7.8	0.3
O-XYLENE	1.1	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	100	80 - 120%
	BROMOFLUOROBENZENE	111	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

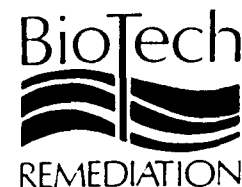
COMMENTS: Monitor Well MW-20, Thriftway site #810.


ANALYST


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-21	DATE ANALYZED:	Nov 14, 1995
SAMPLE NUMBER:	0904	ANALYSIS:	BTEX/MTBE

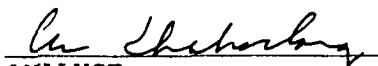
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	61	0.9
BENZENE	0.6	0.3
TOLUENE	0.7	0.4
ETHYLBENZENE	ND	0.4
P,M-XYLENE	ND	0.9
O-XYLENE	0.7	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	106	80 - 120%

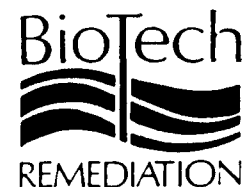
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-21, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-22	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0905	ANALYSIS:	BTEX/MTBE

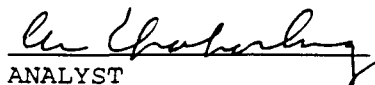
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	25.0	0.3
BENZENE	0.7	0.2
TOLUENE	0.8	0.2
ETHYLBENZENE	0.2	0.2
P,M-XYLENE	0.8	0.3
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
QUALITY CONTROL:	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

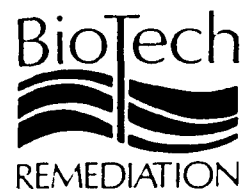
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-22, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	MW-25	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0916	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	66	45.0
BENZENE	1207	15.0
TOLUENE	1979	20.0
ETHYLBENZENE	398	20.0
P,M-XYLENE	1884	45.0
O-XYLENE	586	20.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	108	80 - 120%

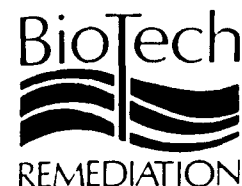
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Monitor Well MW-25, Thriftway site #810.

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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	STRIPPER DISCHARGE	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0921	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	3.2	4.5
BENZENE	33.9	1.5
TOLUENE	12.3	2.0
ETHYLBENZENE	8.9	2.0
P,M-XYLENE	39.9	4.5
O-XYLENE	8.2	2.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	98	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

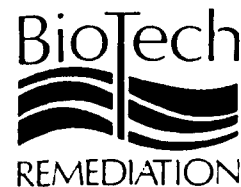
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Stripper Discharge, Thriftway site #810.


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	STRIPPER BOX	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	0922	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	4.9	4.5
BENZENE	33.1	1.5
TOLUENE	10.4	2.0
ETHYLBENZENE	5.0	2.0
P,M-XYLENE	9.9	4.5
O-XYLENE	2.7	2.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

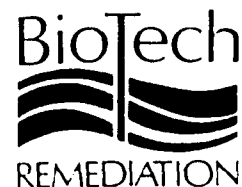
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Stripper Box, Thriftway site #810.

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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	11-12-95
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	11-13-95
SAMPLE ID:	SEPARATOR	DATE ANALYZED:	Nov 14, 1995
SAMPLE NUMBER:	0923	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	55	90.0
BENZENE	4573	30.0
TOLUENE	1107	40.0
ETHYLBENZENE	327	40.0
P,M-XYLENE	718	90.0
O-XYLENE	177	40.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	90	80 - 120%
	BROMOFLUOROBENZENE	97	80 - 120%

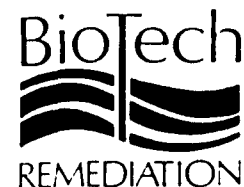
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: Separator, Thriftway site #810.

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QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

CLIENT: NA
CLIENT NUMBER: NA
PHASE/TASK: NA
PROJECT LOCATION: Bloomfield, NM
SAMPLE ID: MW-5
SAMPLE NUMBER: 0907

SAMPLE MATRIX: WATER
PRESERVATIVE: HgCl2
DATE SAMPLED: 11-12-95
DATE RECEIVED: 11-13-95
DATE ANALYZED: Nov 13, 1995
ANALYSIS: BTEX/MTBE

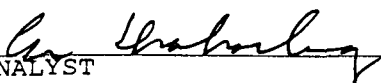
SPIKE CONCENTRATION (ug/L) = 20.0

ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	45.8	66	0.3	100	-
BENZENE	3.7	22	0.2	94	39 - 150%
TOLUENE	0.4	19	0.2	91	46 - 148%
ETHYLBENZENE	0.8	19	0.2	91	32 - 160%
P,M-XYLENE	1.1	38	0.3	92	-
O-XYLENE	ND	18	0.3	92	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

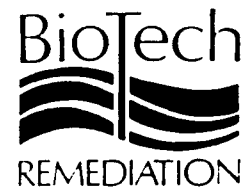
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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**QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS**

CLIENT: NA
CLIENT NUMBER: NA
PHASE/TASK: NA
PROJECT LOCATION: Bloomfield, NM
SAMPLE ID: MW-11
SAMPLE NUMBER: 0919

SAMPLE MATRIX: WATER
PRESERVATIVE: HgCl2
DATE SAMPLED: 11-12-95
DATE RECEIVED: 11-13-95
DATE ANALYZED: Nov 13, 1995
ANALYSIS: BTEX/MTBE

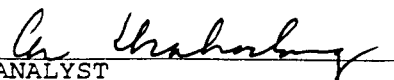
SPIKE CONCENTRATION (ug/L) = 20.0

ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	ND	20.0	0.9	99	-
BENZENE	0.5	19.9	0.3	97	39 - 150%
TOLUENE	1.7	21.4	0.4	98	46 - 148%
ETHYLBENZENE	0.5	20.0	0.4	98	32 - 160%
P,M-XYLENE	3.4	41.3	0.9	95	-
O-XYLENE	0.8	20.5	0.4	99	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

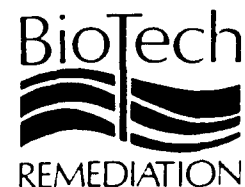
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	11135AM.00	ANALYSIS:	BTEX/MTBE

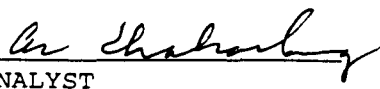
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.3
BENZENE	ND	0.2
TOLUENE	ND	0.2
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.3

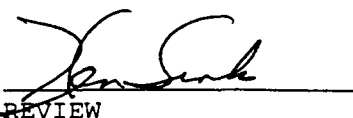
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	95	80 - 120%
	BROMOFLUOROBENZENE	91	80 - 120%

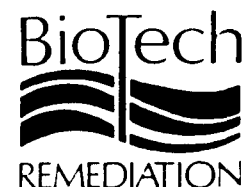
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


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EPA METHOD 8020
PURGEABLE AROMATICS

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl2
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Nov 13, 1995
SAMPLE NUMBER:	11135PM.00	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
METHYL-T-B-ETHER	ND	0.9
BENZENE	ND	0.3
TOLUENE	ND	0.4
ETHYLBENZENE	ND	0.4
P,M-XYLENE	ND	0.9
O-XYLENE	ND	0.4

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	106	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

ANALYST

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11202

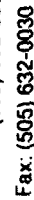
CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS							Remarks
Sample No./ID	Date	Time	Lab No.	Matrix	No. Cont.	BTEX	MTBE				
T-Valley Refinery # 810		Blanco, NM									
Sampler: (Signature)		Tape No.									
11-12-95	0840		0903	Water	2	✓	✓				
11-12-95	0855		0904	Water	2	✓	✓				
11-12-95	0910		0905	Water	2	✓	✓				
11-12-95	0920		0906	Water	2	✓	✓				
11-12-95	0940		0907	Water	2	✓	✓				
11-12-95	0950		0908	Water	2	✓	✓				
11-12-95	1000		0909	Water	2	✓	✓				
11-12-95	1020		0910	Water	2	✓	✓				
11-12-95	1040		0911	Water	2	✓	✓				
11-12-95	1045		0912	Water	2	✓	✓				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)							
Relinquished by: (Signature)		11-12-95	0800	Received by: (Signature)							
Relinquished by: (Signature)				Received by: (Signature)							

11203

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS										Remarks		
Sample No./ID		Date	Time	Lab No.	Matrix	No. Cont.	BTEX	MTBE								
T-40 Refinery # 210				Blomfield, NM												
Sampler: (Signature)				Tape No.												
Roth Korman																
MW-13		11-12-95	1235	0913	water	2	✓	✓								
MW-16		11-12-95	1215	0914	water	2	✓	✓								
MW-24		11-12-95	1315	0915	water	2	✓	✓								
MW-25		11-12-95	1325	0916	water	2	✓	✓								
MW-9		11-12-95	1340	0917	water	2	✓	✓								
MW-10		11-12-95	1400	0918	water	2	✓	✓								
MW-11		11-12-95	1415	0919	water	2	✓	✓								
MW-15		11-12-95	1430	0920	water	2	✓	✓								
Stripper Discharge		11-12-95	1455	0921	water	2	✓	✓								
Stripper Box		11-12-95	1510	0922	water	2	✓	✓								
Relinquished by: (Signature)				Date	Time	Received by: (Signature)								Date	Time	
Roth Korman				11-13-95	0800	Chaharbagy								11/13/95	0805	
Relinquished by: (Signature)				Received by: (Signature)												
Relinquished by: (Signature)				Received by: (Signature)												

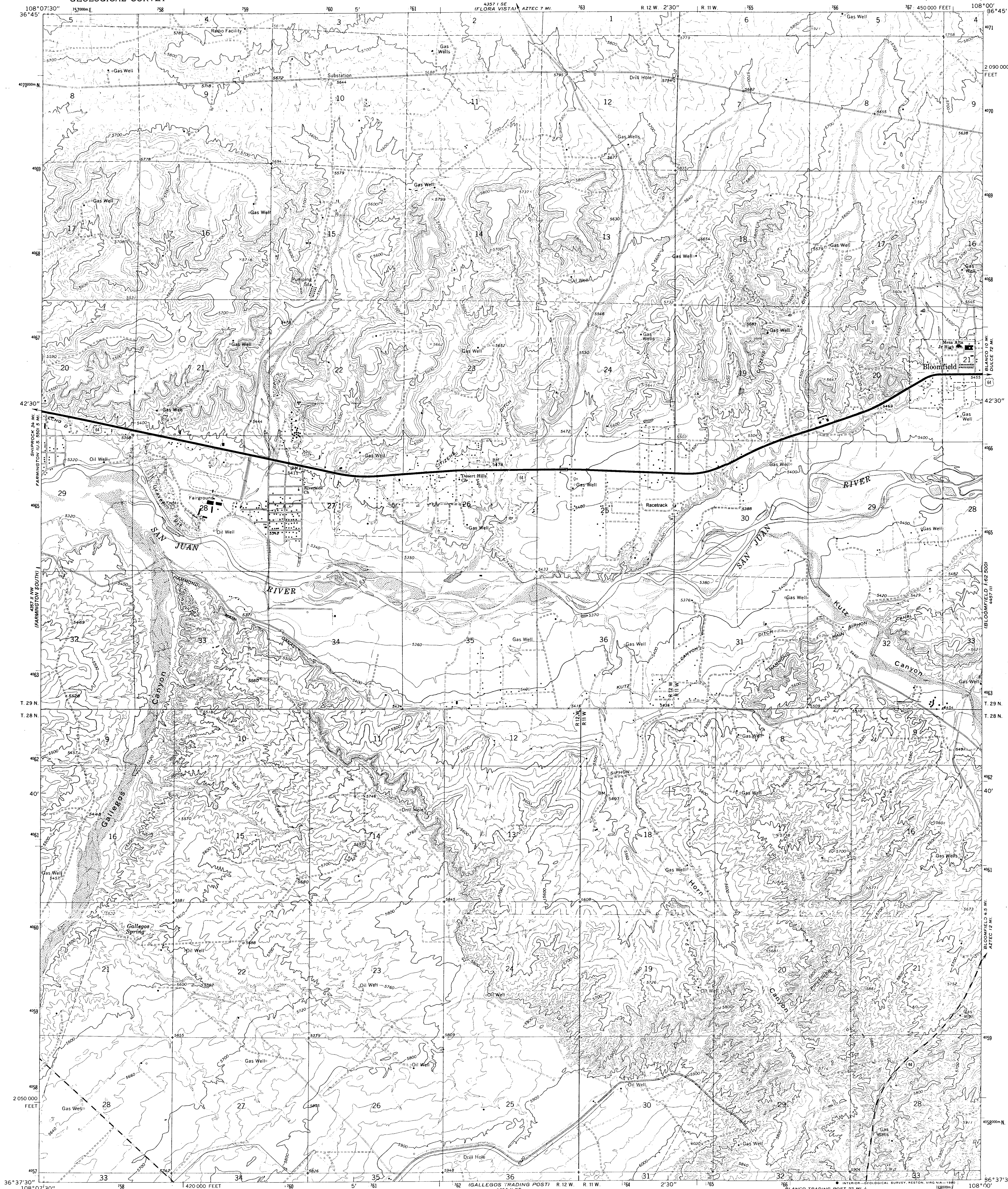


EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS .33 FT
100' TAPE
ORS PROBE

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS .33 FT
100' TAPE
ORS PROBE

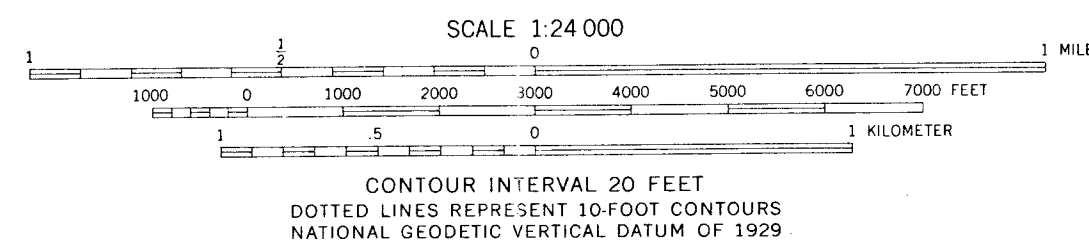
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HORN CANYON QUADRANGLE
NEW MEXICO—SAN JUAN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA, and U. S. Bureau of Reclamation
Topography by photogrammetric methods from aerial
photographs taken 1964 and by planetable surveys of the
Bureau of Reclamation 1965. Field checked by USGS 1965
Polyconic projection. 1927 North American datum
10,000-foot grid based on New Mexico coordinate system,
west zone
1000 meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Fine red dashed lines indicate selected fence lines
To place on the predicted North American Datum 1983
move the projection lines 2 meters north and
56 meters east as shown by dashed corner ticks

Revisions shown in purple compiled from aerial photographs
taken 1978 and other source data. This information not
field checked. Map edited 1979



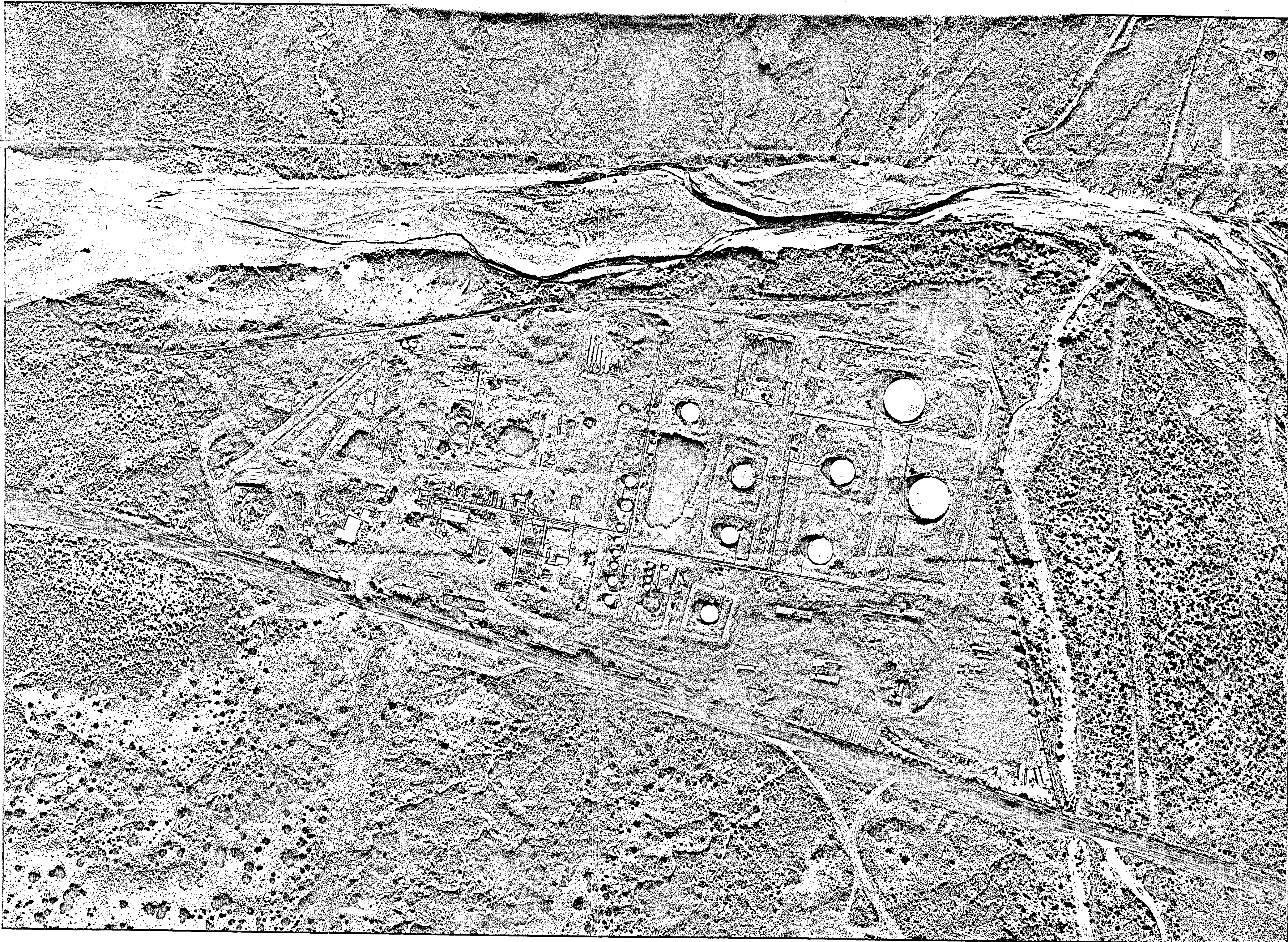
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



ROAD CLASSIFICATION
Heavy-duty ——— Light-duty ———
Medium-duty ——— Unimproved dirt ———
○ State Route
□ U. S. Route

HORN CANYON, N. MEX.
N3637.5—W10800/7.5

1965
PHOTOREVISED 1979
DMA 4357 II NE—SERIES V881

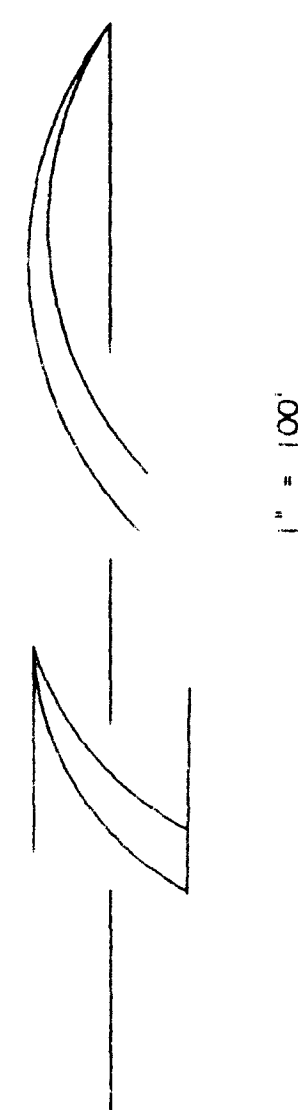


THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO

DATE: 8/8/90
DRAWN BY:
PROJ.
SCALE: 1" = 100 FT.
SHEET 2
OF

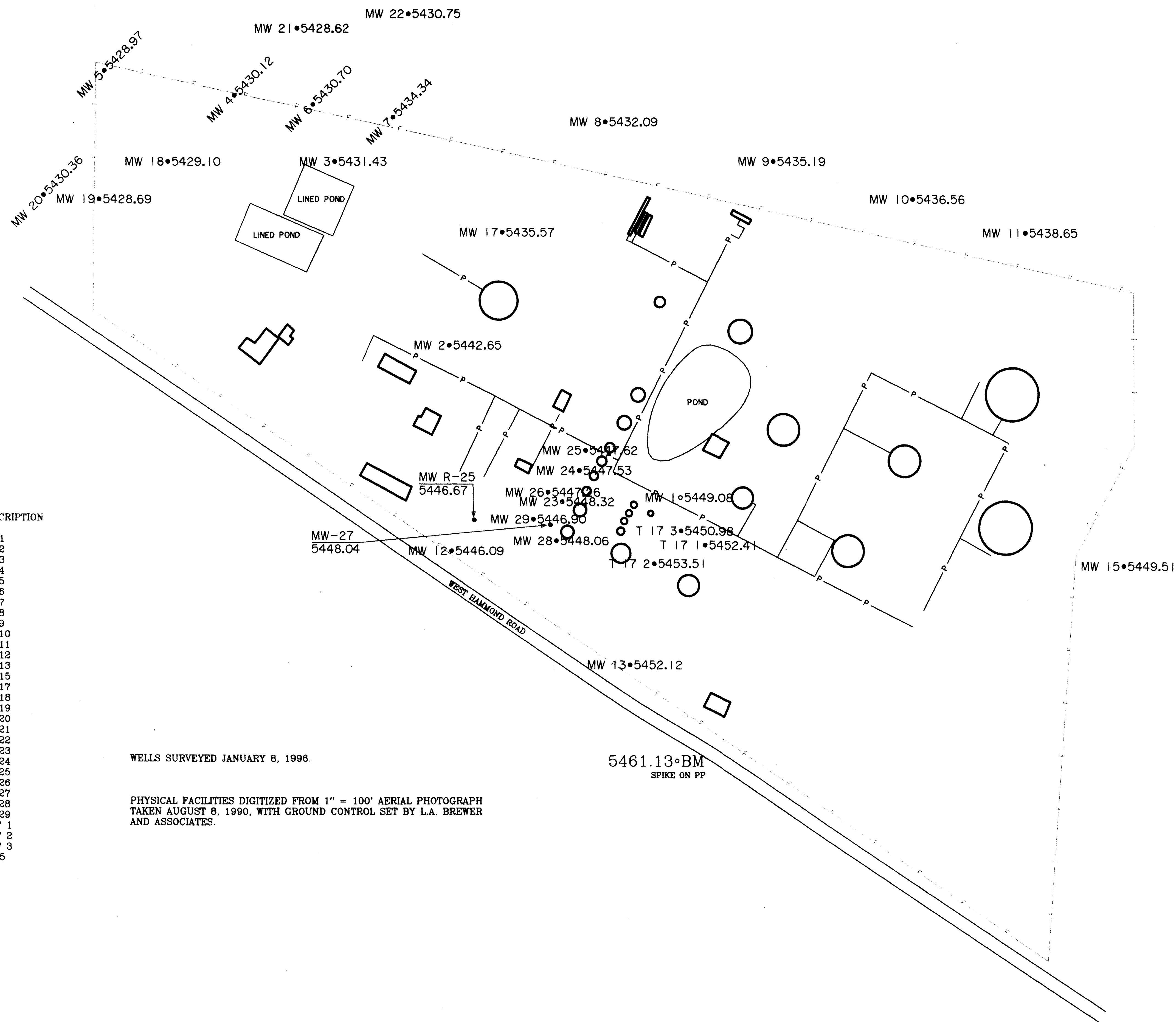
BREWER
ASSOCIATES, INC.
ENGINEERS • SURVEYORS
909 W. APACHE FARMINGTON, NEW MEXICO 87401

DATE	REVISION	BY



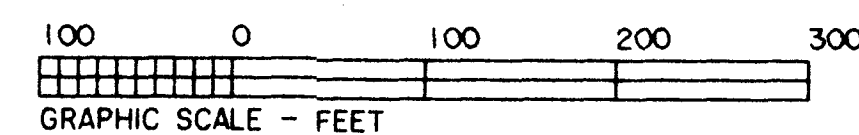
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
37	5122.383	10256.822	5449.08	MW 1
70	5408.680	9818.717	5442.65	MW 2
78	5755.181	9600.169	5431.43	MW 3
82	5880.717	9409.719	5430.12	MW 4
84	5926.909	9163.609	5428.97	MW 5
80	5863.187	9558.712	5430.70	MW 6
78	5839.129	9711.242	5434.34	MW 7
86	5830.586	10113.379	5432.09	MW 8
60	5757.459	10431.445	5435.19	MW 9
58	5686.947	10695.929	5436.56	MW 10
56	5624.427	10909.855	5438.65	MW 11
10	5021.651	9823.073	5446.09	MW 12
8	4806.152	10161.672	5452.12	MW 13
42	4996.389	11098.042	5449.51	MW 15
68	5622.315	9918.382	5435.57	MW 17
102	5754.928	9284.305	5429.10	MW 18
104	5683.519	9153.974	5428.69	MW 19
96	5690.909	9049.085	5430.36	MW 20
88	6007.377	9528.600	5428.62	MW 21
90	6034.741	9739.947	5430.75	MW 22
22	5114.272	10032.974	5448.32	MW 23
20	5172.805	10065.320	5447.53	MW 24
18	5210.844	10077.130	5447.62	MW 25
16	5132.246	10005.872	5447.26	MW 26
24	5070.713	10010.409	5448.04	MW 27
26	5040.736	10021.705	5448.06	MW 28
14	5081.438	9978.444	5446.90	MW 29
35	5032.904	10303.613	5452.41	T 17 1
31	4997.469	10207.154	5453.51	T 17 2
33	5059.486	10258.115	5450.98	T 17 3
12	5079.875	9866.234	5446.67	R-25

ELEVATIONS ARE TO TOP OF CASING.



WELLS SURVEYED JANUARY 8, 1996.

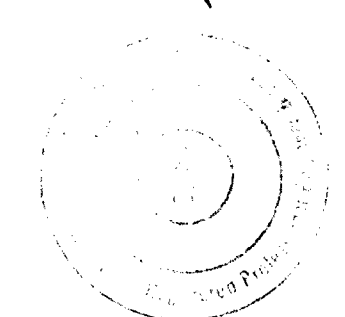
PHYSICAL FACILITIES DIGITIZED FROM 1" = 100' AERIAL PHOTOGRAPH
TAKEN AUGUST 8, 1990, WITH GROUND CONTROL SET BY L.A. BREWER
AND ASSOCIATES.



REVISIONS

PREPARED BY:

Michael Daly
MICHAEL DALY
NEW MEXICO P.E. #1.S. 5992

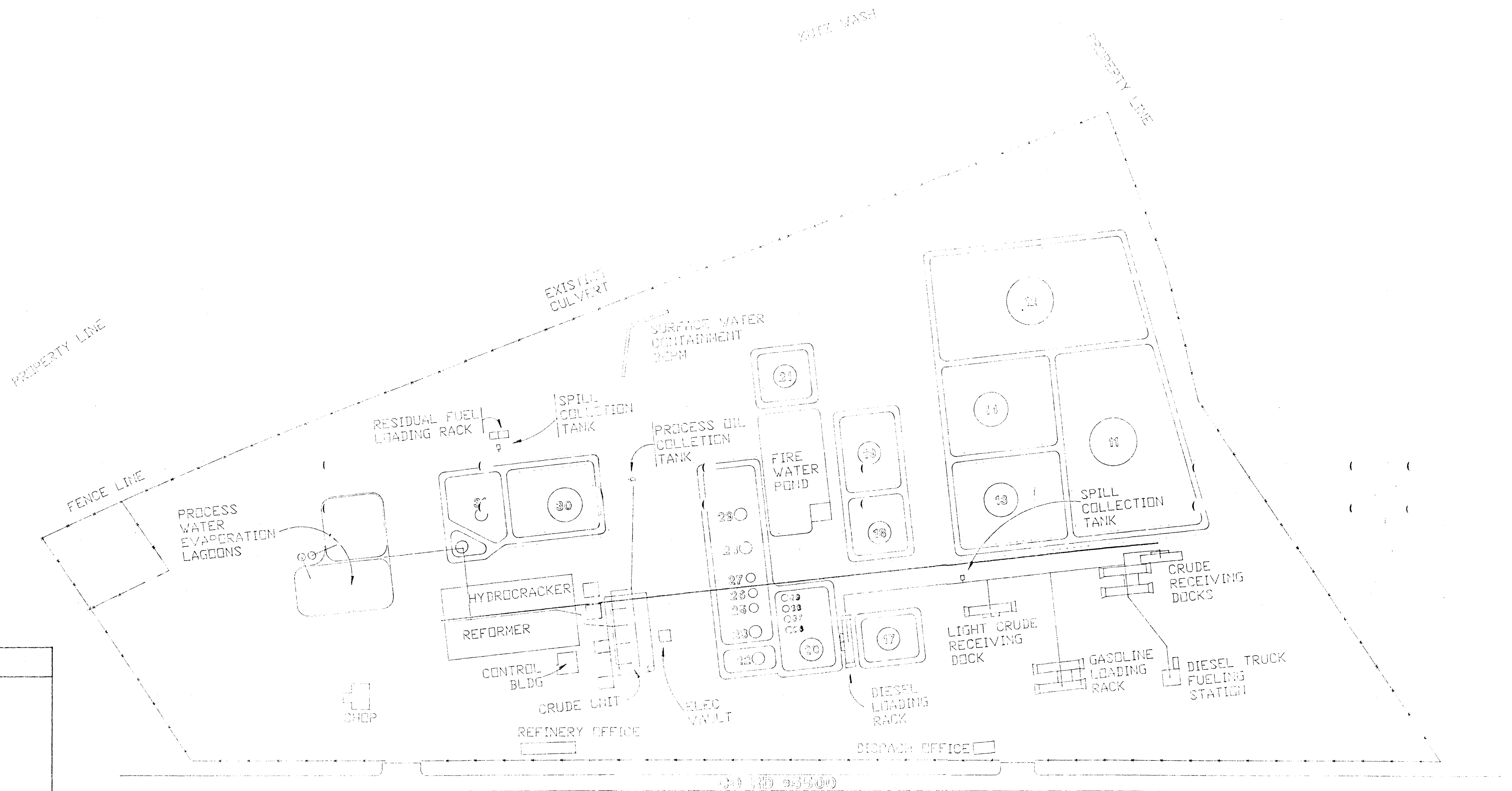


THRIFTWAY REFINERY
THRIFTWAY MARKETING CORPORATION
710 E. 20TH STREET
FARMINGTON, NM 87401-4299

DRAWN: M. DALY
DATE: JAN 30, 1996
SCALE: 1" = 100'
JOB NO. REFINERY
SHEET 3 OF 1 SHEETS

TANK LEGEND

- 11 CRUDE OIL
- 12 CRUDE OIL
- 13 REFORMATE
- 14 LIGHT NAPHTHA
- 17 UNLEADED GASOLINE
- 18 LIGHT NATURAL
- 19 UNLEADED GASOLINE
- 20 DIESEL
- 21 NAPHTHA
- 22 REGULAR GASOLINE
- 23 SUPER UNLEADED GASOLINE
- 25 DIESEL
- 26 DIESEL
- 27 KEROSENE
- 28 UNLEADED GASOLINE
- 29 REGULAR GASOLINE
- 30 RESIDUAL FUEL OIL
- 31 RESIDUAL FUEL OIL
- 32 KEROSENE
- 33 KEROSENE
- 34 KEROSENE



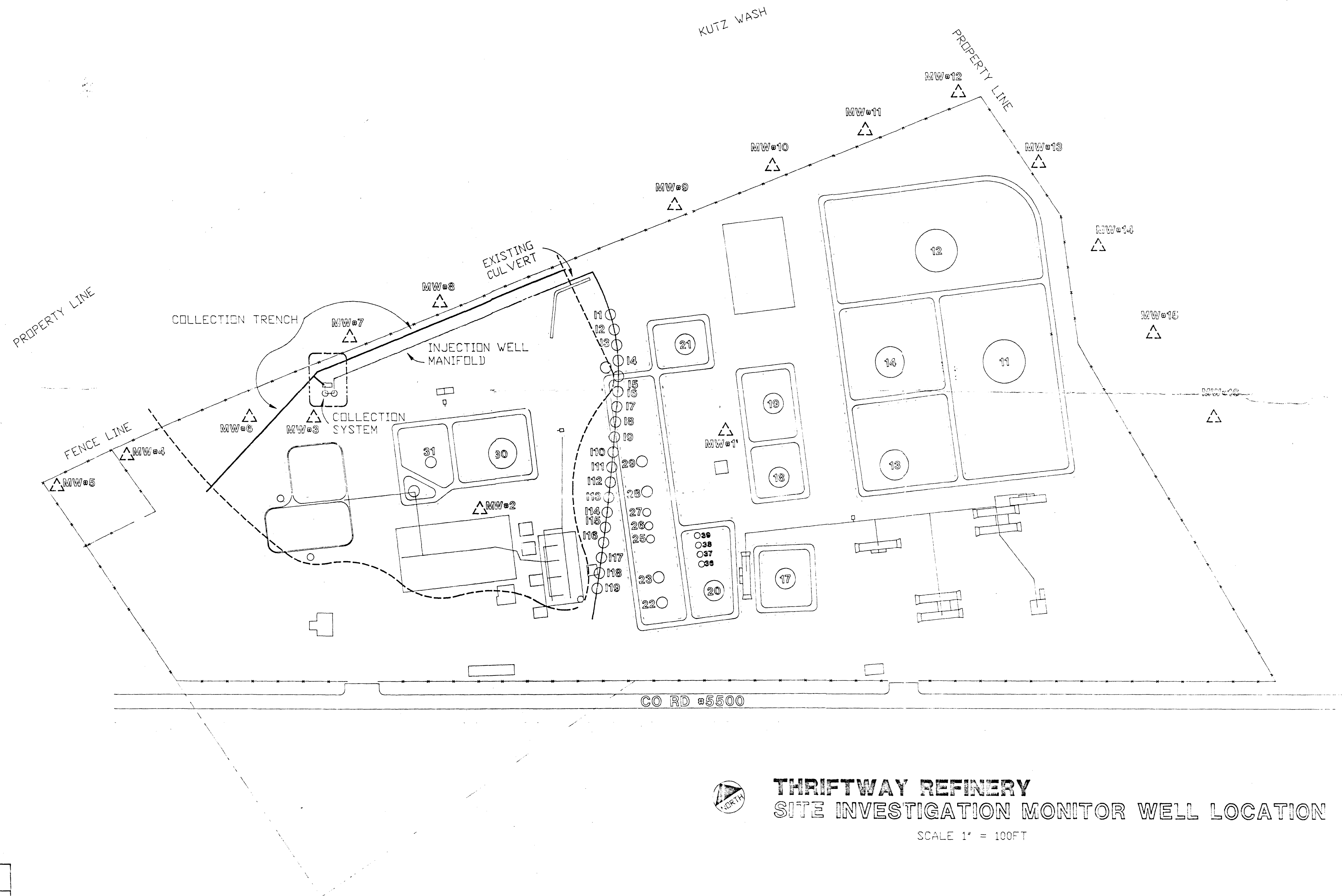
THRIFTWAY REFINERY SITE PLAN

SCALE 1" = 100FT

ENVIRONMENTAL SCIENTIST TO
CDD 226-7082
211 FOSTER
FARMHILL, MO 67413

DATE: 01/19/91
DRAWN: CFB
APP: 0025
SCALE: 1" = 100'

DATE: 01/19/91
DRAWN: CFB
APP: 0025
SCALE: 1" = 100'



LEGEND

- IXX INJECTION WELL
NUMBER XX
- △ MW#XX MONITORING WELL
NUMBER XX



THRIFTWAY REFINERY SITE INVESTIGATION MONITOR WELL LOCATION

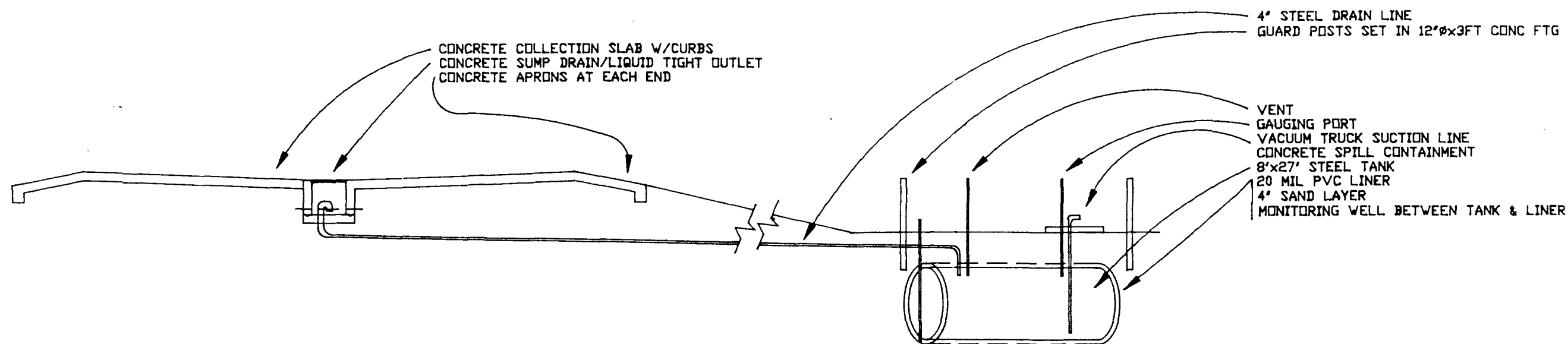
SCALE 1" = 100FT

DATE	REVISION	BY

ENVIRONMENTAL SCIENTISTS 2311 KILMER FARMINGTON, NM 87401

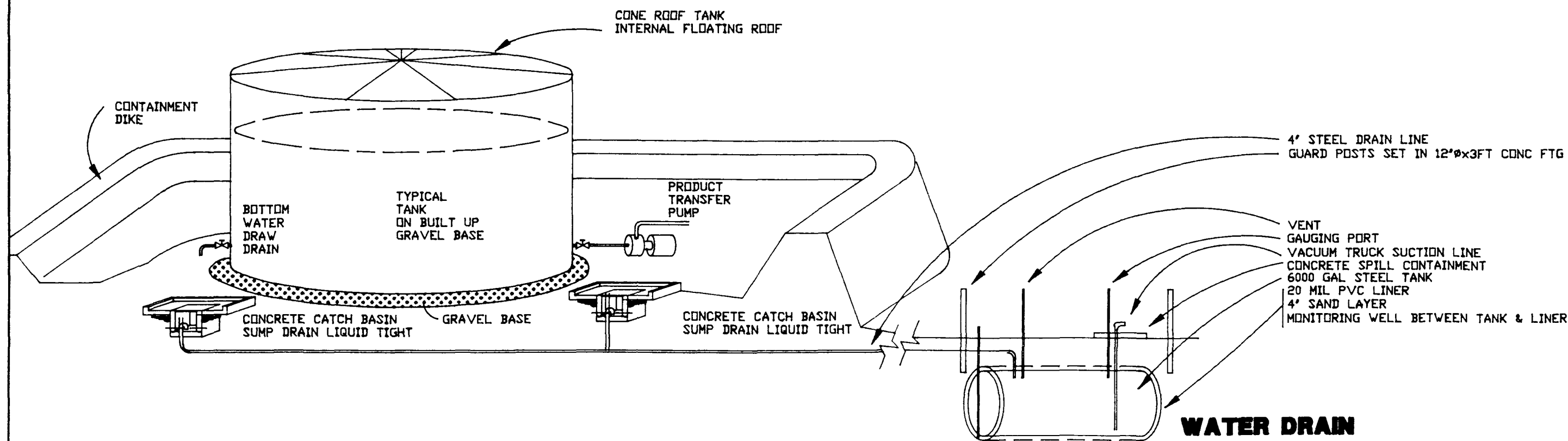
SITE INVESTIGATION
MONITOR WELL LOCATION
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
THRIFTWAY MARKETING CO. INC.
710 E 20th ST, FARMINGTON, NM 87401

DATE:	OCT'90
DRAWN:	GEB
PROJ.	9023
SCALE:	1"=100'
SHEET	65
OF	4



LOAD/UNLOAD SPILL CONTAINMENT SYSTEM

NOT TO SCALE



WATER DRAIN SPILL CONTAINMENT SYSTEM

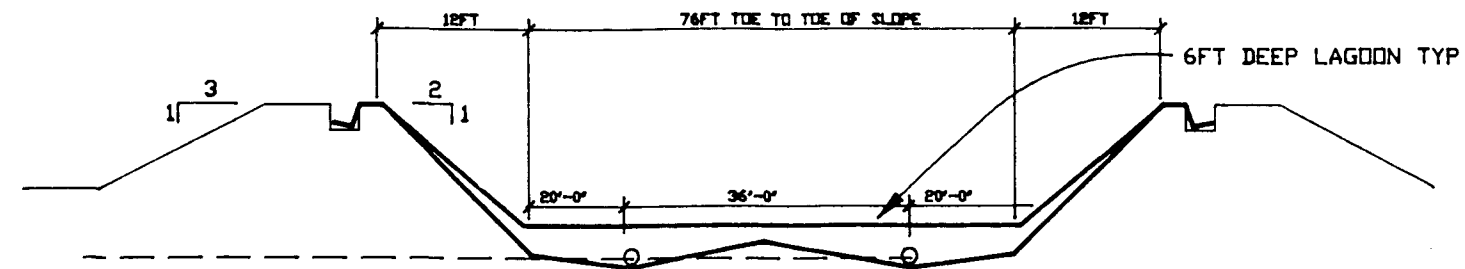
NOT TO SCALE

DATE	REVISION	BY

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS
CUSD 304-0022
3111 KILBURN
FARMINGTON, NM 87401

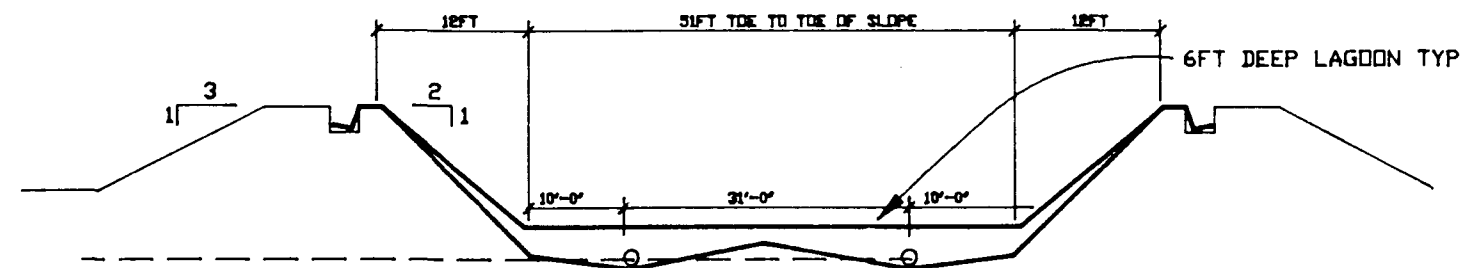
LOAD/UNLOAD SPILL CONTAINMENT SYS
WATER DRAIN SPILL CONTAINMENT SYS
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
THRIFTWAY MARKETING CORP
710 E 20th ST, FARMINGTON, NM, 87401

DATE: JULY 90
DRAWN: GEB
PROJ: 9023
SCALE: NA
SHEET **A4**
OF 5



LAGOON PROFILE B/B

SLOPE SECONDARY LINER TO
COLLECTION LINES, MIN SLOPE
6"/50FT



LAGOON PROFILE A/A

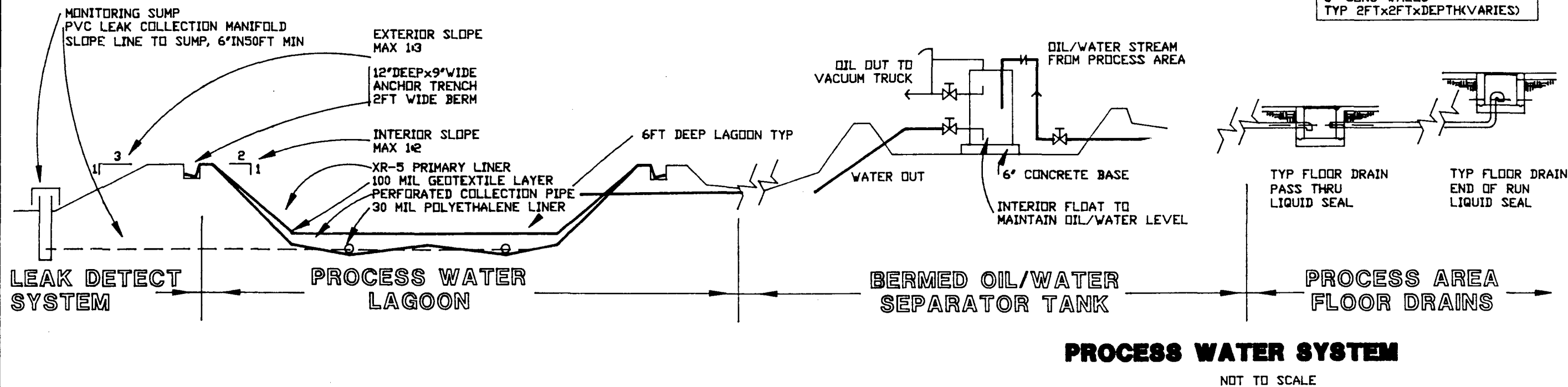
SLOPE SECONDARY LINER TO
COLLECTION LINES, MIN SLOPE
6"/50FT

DATE	REVISION	BY

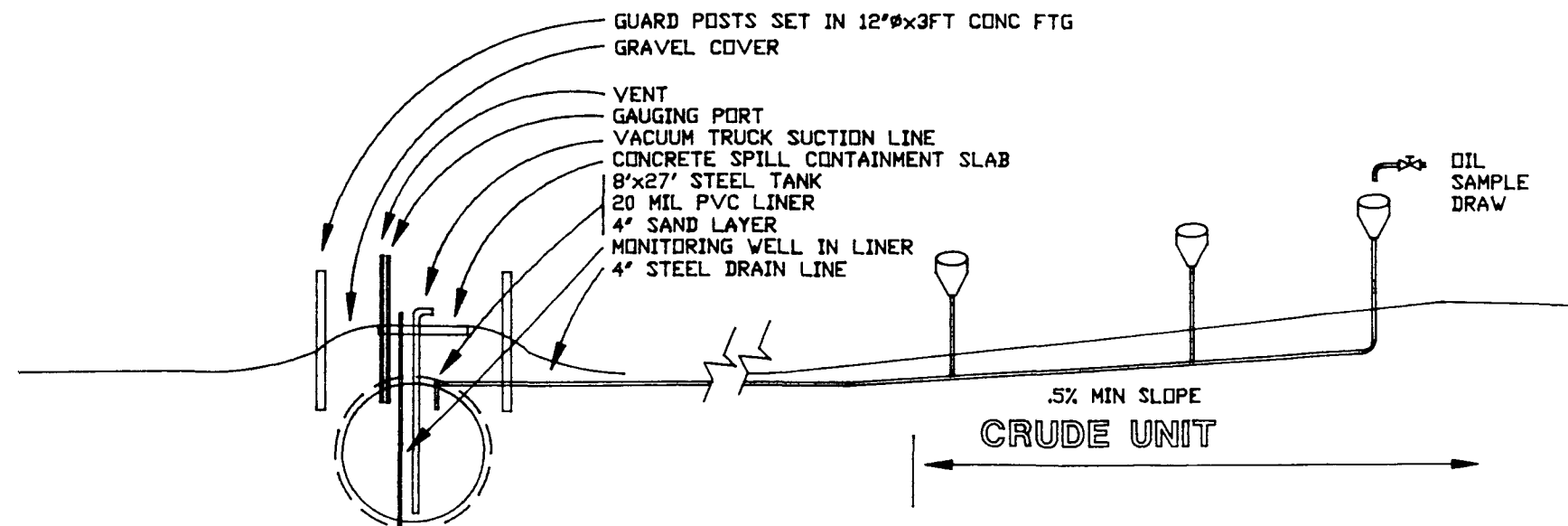
ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS
CINDY J. JENSEN
3111 KILGUS
FARMINGTON, NH 07401

LAGOON PROFILES A/A, B/B
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
THRIFTWAY MARKETING CORP
710 E 20th ST, FARMINGTON, NM, 87401

DATE: JULY 90
DRAWN: GEB
PROJ: 9023
SCALE: NA
SHEET **A3**
OF 5



4' CONCRETE FLOOR
STEEL GRATE
4" STEEL PIPE, .5% MIN SLOPE
6" CONC BASE
6" CONC WALLS
TYP 2 FT x 2 FT x DEPTH (VARIES)

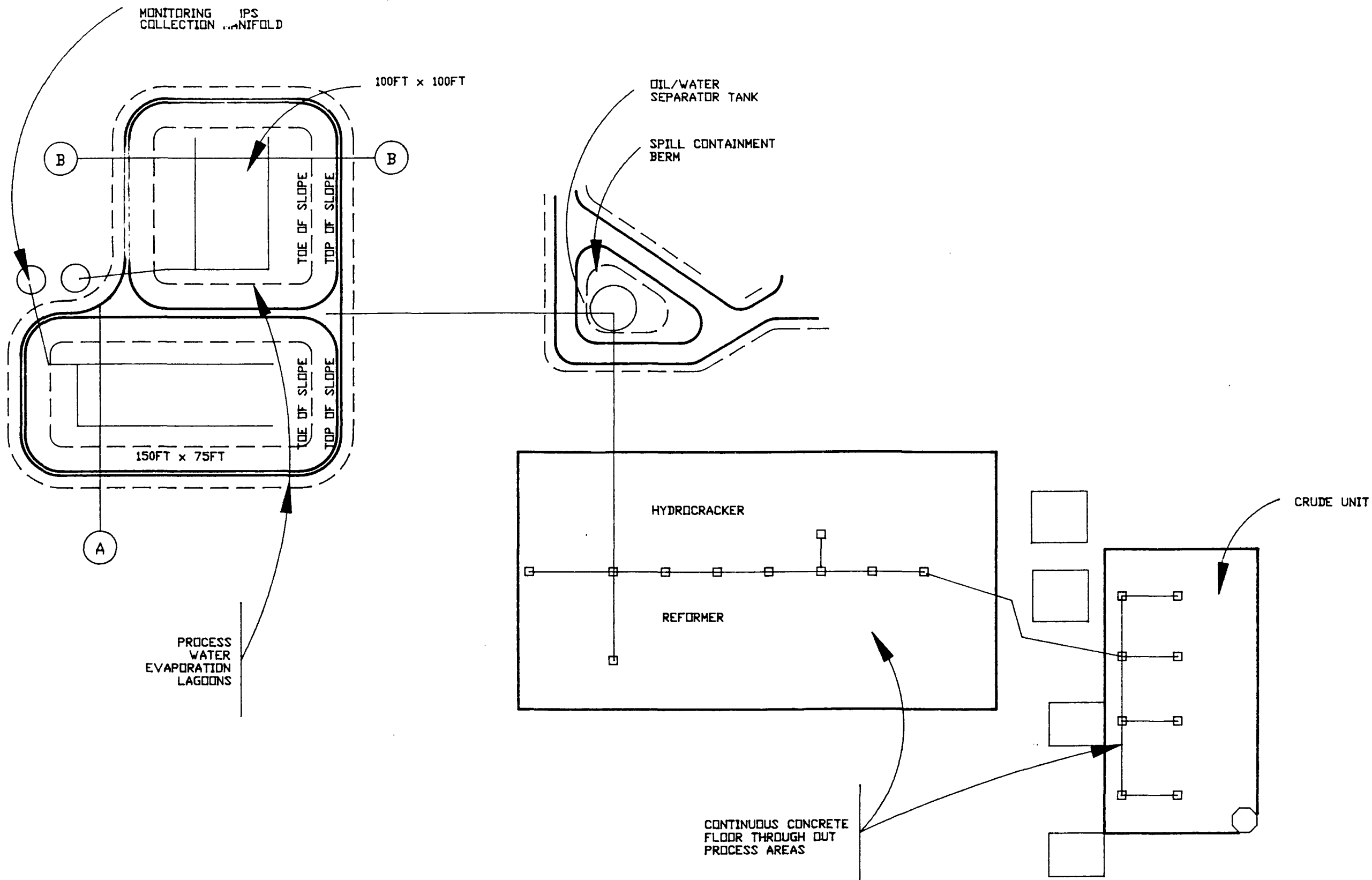


DATE	REVISION	BY

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS
C/O 30324-2922
2111 KALDEN
FARMINGTON, NM 87401

PROCESS WATER SYSTEM
PROCESS OIL COLLECTION SYSTEM
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
THRIFTWAY MARKETING CORP
710 E 20th ST, FARMINGTON, NM, 87401

DATE: JULY 90
DRAWN: GEB
PROJ: 9023
SCALE: NA
SHEET: **A2**
OF 5



PROCESS WATER SYSTEM LAYOUT

SCALE 1" = 50FT

DATE	REVISION	BY

ENVIROTECH INC.
 ENVIRONMENTAL SCIENTISTS
 3000 304-0822
 2011 KILGUSSEN
 FARMINGTON, NM 87401

PROCESS WATER SYSTEM LAYOUT
 THRIFTWAY REFINERY
 BLOOMFIELD, NEW MEXICO
 THRIFTWAY MARKETING CORP
 710 E 20th ST, FARMINGTON, NM, 87401

DATE: JULY 90
 DRAWN: GEB
 PROJ: 9023
 SCALE: 1" = 50FT
 SHEET **A1**
 OF 5